

EPA Reg. Jacket 100-1457 vol 2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

November 14, 2016

Patrick McCain  
Senior Regulatory Product Manager  
Seedcare  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, NC 27419-8300

Subject: Label Amendment – Revisions to PPE, seed bag tag and other revisions  
Product Name: Avicta Complete Beans 500  
EPA Registration Number: 100-1457  
Application Date: 9/9/2015  
Decision Number: 509988

Dear Mr. McCain:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

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Decision No. 509988

with FIFRA section 6. If you have any questions, please contact Jacquelyn Herrick by phone at 703-347-0559, or via email at [herrick.jacquelyn@epa.gov](mailto:herrick.jacquelyn@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to be 'MS' with a long horizontal stroke extending to the right.

Mark Suarez  
Product Manager 07  
Invertebrate & Vertebrate Branch 3  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure

(Master)

## RESTRICTED USE PESTICIDE

### DUE TO TOXICITY

FOR SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

GROUP	4A	6	INSECTICIDES
GROUP	4	12	FUNGICIDES

### Avicta® Complete Beans 500

Nematicide/Insecticide/Fungicide

A seed treatment product that provides soybean seedlings early-season protection from damage caused by nematodes (including soybean cyst nematode) and the listed insects and diseases

For use only in Syngenta-certified seed treatment facilities and only in seed treatment equipment with closed transfer and application systems. Not for use in hopper box, planter box, slurry box, or other farmer-applied applications.

#### Active Ingredients:

Abamectin (CAS No. 71751-41-2) .....	22.20%
Thiamethoxam (CAS No. 153719-23-4) .....	11.10%
Mefenoxam CAS 70630-17-0, 69516-34-3) .....	1.67%
Fludioxonil (CAS No. 131341-86-1) .....	0.55%
Other Ingredients: .....	64.48%
Total: .....	100.00%

Avicta Complete Beans 500 is a flowable concentrate containing 2.06 pounds of abamectin, 1.03 pounds of thiamethoxam, 0.15 pounds of mefenoxam, and 0.05 pounds of fludioxonil per gallon.

**KEEP OUT OF REACH OF CHILDREN.**

## WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-1457

EPA Est.

\_\_\_\_\_gallons  
Net Contents

**ACCEPTED**

**100-1457**

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under

EPA Reg. No. 11/14/2016



<b>FIRST AID</b>	
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<p align="center"><b>HOT LINE NUMBER</b>            For 24-Hour Medical Emergency Assistance (Human or Animal)            Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident)            Call  <b>1-800-888-8372</b></p>	

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## **PRECAUTIONARY STATEMENTS**

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### **Hazards to Humans and Domestic Animals**

#### **WARNING/AVISO**

May be fatal if inhaled. May be fatal if swallowed. Do not breathe vapor/spray mist. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

The following personal protective equipment and clothing are required when using this product:

## **Personal Protective Equipment (PPE)**

### **Seed Treatment Workers**

**Workers involved with treating the seed (e.g., connecting and disconnecting hoses and transfer pumps, mixing, equipment calibration, etc.) must wear:**

- Chemical-resistant gloves: barrier laminate, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, polyvinyl chloride (PVC)  $\geq 14$  mils, or Viton®  $\geq 14$  mils
- Protective eyewear
- Coveralls worn over long-sleeved shirt and long pants
- Chemical-resistant apron
- Shoes and socks
- NIOSH-approved respirator with any N, R, or P filter with NIOSH-approval number prefix TC-84A; or a NIOSH-approved powered air purifying respirator with HE filter with NIOSH-approval number prefix TC-21C

### **Workers Filling Seed Containers/Baggers and Bag Sewers must wear:**

- Chemical-resistant gloves: barrier laminate, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, polyvinyl chloride (PVC)  $\geq 14$  mils, or Viton  $\geq 14$  mils
- Protective eyewear
- Coveralls worn over Long sleeved shirt and long pants
- Shoes and socks
- NIOSH-approved respirator with any N, R, or P filter with NIOSH-approval number prefix TC-84A; or a NIOSH-approved powered air purifying respirator with HE filter with NIOSH-approval number prefix TC-21C

### **Workers involved with the clean-up and maintenance of seed treatment equipment must wear:**

- Chemical resistant gloves (minimum length 12 inches): barrier laminate, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, polyvinyl chloride (PVC)  $\geq 14$  mils, or Viton  $\geq 14$  mils Important: tape down gloves to the sleeves of coveralls.
- Protective eyewear
- Chemical-resistant, hooded coveralls worn over long-sleeved shirt and long pants
- Shoes and socks
- NIOSH-approved respirator with an organic vapor (OV) cartridge with a combination N, R, or P filter with NIOSH-approval number prefix TC-84A; OR NIOSH-approved gas mask with an organic vapor canister with NIOSH-approval number prefix TC-14G; OR a NIOSH-approved powered air purifying respirator with organic vapor (OV) cartridge and combination HE filter with NIOSH-approval number prefix TC-23C

### **Multiple Task Workers must wear:**

(Multiple task workers perform multiple tasks in one day such as mixing, product application, filling seed containers/bagging, bag sewing, and clean-up.)

- Chemical-resistant gloves: barrier laminate, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, polyvinyl chloride (PVC)  $\geq 14$  mils, or Viton  $\geq 14$  mils. Important: when performing seed treatment equipment clean-up procedures, gloves must be at least 12 inches long and taped down to the sleeves of the coveralls.
- Protective eyewear
- Long-sleeved shirt and long pants
- Chemical-resistant, hooded coveralls over long-sleeved shirt and long pants (required when performing seed treatment equipment clean-up procedures)
- Shoes and socks
- NIOSH-approved respirator with any N, R, or P filter with NIOSH-approval number prefix TC-84A; or a NIOSH-approved powered air purifying respirator with HE filter with NIOSH-approval number prefix TC-21C

### **Environmental Hazards**

This pesticide product is toxic to wildlife, freshwater and estuarine/marine fish, and highly toxic to aquatic invertebrates. Treated seeds exposed on the soil surface may be hazardous to wildlife. Cover or collect seeds spilled during loading. Do not contaminate water when disposing of equipment washwater or rinsate.

This pesticide product contains the active ingredient thiamethoxam, which is highly toxic to bees exposed to direct treatment. Effects may be possible as a result of exposure to translocated residues in blooming crops.

### **Pollinator Precautions**

Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming crops.

### **Groundwater Advisory**

This product contains the active ingredient mefenoxam, which is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of mefenoxam in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This product also contains thiamethoxam, which has properties and characteristics associated with chemicals detected in groundwater. Use of thiamethoxam in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

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**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

## DIRECTIONS FOR USE

### RESTRICTED USE PESTICIDE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

- Avicta Complete Beans 500 is for use only in Syngenta-certified seed treatment facilities and only in seed treatment equipment with closed transfer and application systems. Use in hopper box, planter box, slurry box, or other farmer-applied applications is not permitted.
- Treatment of highly mechanically scarred or damaged seed or seed known to be of low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Conduct germination tests with a representative sample of the seed lot before committing the total seed lot to a selected seed treatment. Because seed quality and seed storage conditions are beyond the control of Syngenta, no claims are made to guarantee the germination of seed or propagating material for all crops.
- Seed treated with this product must be visually identifiable from untreated seed by the use of an approved colorant or dye to prevent accidental use of treated seed as food for humans or feed for animals. Refer to 21 CFR, Part 2.25. Any colorant or dye added to treated seed must be cleared for use in accordance with 40 CFR, Part 153.155(c). Refer to the section on this label **REQUIRED SEED CONTAINER STATEMENTS** for language that must appear on the container or on the tag that is attached to the container of treated seed.

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## PRODUCT INFORMATION

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Avicta Complete Beans 500 is a seed treatment nematicide/insecticide/fungicide for soybeans. Avicta Complete Beans 500 contains the active ingredients abamectin, thiamethoxam, mefenoxam, and fludioxonil. When applied to soybean seed, Avicta Complete Beans 500 will provide soybean seedlings early-season protection from damage caused by nematodes (including soybean cyst nematode) and from the insects, soil-borne diseases, and seed-borne diseases specified in the **Crop Use Directions**. Refer to the **Crop Use Directions** for application instructions.

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## REQUIRED SEED CONTAINER STATEMENTS

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User is responsible for ensuring that the seed container meets all requirements under the Federal Seed Act.

The Federal Seed Act requires that the container of soybean seed treated with Avicta Complete Beans 500 shall be labeled with the following statements:

- Store treated seed away from food and feedstuffs.
- Do not allow children, pets, or livestock to have access to treated seeds.
- This seed has been treated with abamectin nematicide, thiamethoxam insecticide, and mefenoxam and fludioxonil fungicides.
- Do not use treated seed for feed, food, or oil purposes.

In addition, the U.S. Environmental Protection Agency requires the following statements on the container of soybean seed treated with Avicta Complete Beans 500.

- Wear long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves when handling treated seed.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- **Groundwater Advisory:** This product contains the active ingredient mefenoxam, which is known to leach through soil into groundwater under certain conditions as a result of agricultural use.

This product also contains thiamethoxam, which has properties and characteristics associated with chemicals detected in groundwater. Use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

- **Pollinator Precautions:** This product contains thiamethoxam, which is highly toxic to bees. Effects are possible as a result of exposure to translocated residues in blooming crops.
- Excess treated seed may be used for biofuel production only if:
  - (1) By-products are not used for livestock feed, and
  - (2) No measurable residues of pesticides remain in ethanol by-products that are used for agronomic practice.

- Treated seeds exposed on soil surface may be hazardous to wildlife; cover or collect treated seeds that are spilled during loading and in areas such as row ends.
- Dispose of all excess treated seed by burying seed away from bodies of water.
- Do not contaminate bodies of water when disposing of planting equipment wash water.
- Dispose of seed packaging in accordance with local requirements.
- Plant Avicta Complete Beans 500-treated soybean seed based upon the local planting dates and soil temperatures that are recommended by your state agricultural extension agent. In areas with a history of high nematode populations, a soil fumigant may be recommended.
- Do not use at a rate that will result in more than 0.008 lb fludioxonil per acre per calendar year (4.0 g ai/A), 0.026 lb mefenoxam per acre per calendar year (11.4 g ai/A), or 0.083 lb thiamethoxam per acre per calendar year (37.8 g ai/A) as a seed treatment application. This seed has been treated with 0.0038 mg fludioxonil/seed, 0.0113 mg mefenoxam/seed, and 0.0756 mg thiamethoxam/seed.
- After the seeds have been planted, do not enter or allow worker entry into treated areas during the restricted entry interval (REI) which is 48 hours. **Exception:** Once the seeds are planted into the soil workers are permitted to enter the treated area immediately if there will be no worker contact with the soil subsurface.
- Wait a minimum of 45 days after planting Avicta Complete Beans 500-treated soybean seed before treating the soybeans with a neonicotinoid insecticide.
- In the event of crop failure or after harvest of soybeans grown from Avicta Complete Beans 500-treated soybean seed, the following crops may be replanted immediately:

Immediate Plantback
Alfalfa
Cereal Grains : Barley, Buckwheat, Corn (field, pop, and sweet), Oat, Pearl Millet, Proso Millet, Rice (Dry-seeded), Rye, Sorghum, Teosinte, Triticale, Wheat, and Wild Rice
Canola
Cotton
Cucurbit Vegetables Crop Group 9
Fruiting Vegetables Crop Group 8
Head and Stem <i>Brassica</i> Crop Subgroup 5A
Leafy <i>Brassica</i> Greens Crop Subgroup 5B
Leafy Vegetables (Except Brassica), Crop Group 4
Legume Vegetables (Succulent or Dried, Including Soybean) Crop Group 6
Mint: Peppermint and Spearmint
Oilseed Crops: Borage, Crambe, Flax Seed, Mustard Seed, and Safflower
Onion, Dry Bulb
Peanut
Potato
Root Vegetables Crop Subgroup 1A
Strawberry
Sunflower
Tobacco
Tuberous and Corm Vegetables (Except Potato) Crop Subgroup 1D

For any other crop, the minimum plant back interval is 120 days from the date the Avicta Complete Beans 500 treated soybean seeds were planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120 day interval; however, the crop may not be grazed or harvested for food or feed.



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## RESISTANCE MANAGEMENT

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GROUP	4A	6	INSECTICIDES
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Avicta Complete Beans 500 contains thiamethoxam, a Group 4A insecticide, and abamectin, a Group 6 insecticide. Thiamethoxam is a systemic insecticide belonging to the neonicotinoid class of chemistry which includes nicotinic acetylcholine receptor (nAChR) agonists. Abamectin belongs to the avermectin class of chemistry which affects nerves and muscles.

Insect populations may contain individuals naturally resistant to Group 4A and 6 insecticides and if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, use sound resistance management strategies established for the crop and use area.

Base seed treatment on an integrated pest management program that includes field sanitation, historical information related to pesticide use, careful selection of pest-tolerant crop varieties, scouting, and management practices which optimize populations of natural enemies of insect pests such as within-field refuge (untreated areas). Sound management programs also consider cultural and biological control practices.

### **In order to maintain susceptibility to these classes of chemistry:**

- Use products at their full, specified doses.
- Use appropriate, well-maintained equipment. Use specified water volumes and apply at optimal temperatures in order to obtain optimal treatment.
- When rate ranges are given, use the higher rate within the listed rate range when insect pressure is expected to be high.
- Avoid using a single active ingredient or mode of action (same insecticide group) exclusively for season long control of insect species with more than one generation per crop season.
- For insect species with successive or overlapping generations, use a treatment window approach. A treatment window is a period of time defined by the stage of crop development and the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, single or consecutive applications may be made using seed, in-furrow, or foliar treatments unless otherwise excluded by product labels. Do not exceed the maximum amount of this insecticide's mode of action allowed per growing season.
- Following a treatment window of this insecticide's mode of action, rotate to a treatment window of effective products with a different mode of action before making additional applications of this insecticide.

If resistance to this product develops in your area, this product or other products with a similar mode of action may not provide adequate control. If poor performance cannot be attributed to improper application or weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable

cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for the crop and use area.

Syngenta encourages responsible product stewardship to ensure effective long term control of the insect pests on this label.

**For additional information on Insect Resistance Management:**

- Contact Syngenta representatives at 1-800-334-9481
- Contact your local Cooperative Extension Service specialist, pest control advisor, or certified crop advisor
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at: <http://www.irac-online.org>

<b>GROUP 4 12 FUNGICIDES</b>
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Avicta Complete Beans 500 contains mefenoxam, a Group 4 fungicide, and fludioxonil, a Group 12 fungicide. Mefenoxam belongs to the phenylamide class of chemistry which interferes with fungal RNA synthesis. Fludioxonil belongs to the phenylpyrrole class of chemistry which interferes with osmotic signal transduction.

Fungal populations may contain individuals naturally resistant to Group 4 or 12 fungicides and if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies such as alternation with fungicides with a different mode of action and/or tank mixes established for the crop and use area.

Use should be based on an IPM program that includes field sanitation, scouting, historical information related to pesticide use, and crop rotation. The IPM program should also consider cultural, biological, and other chemical control practices.

Syngenta encourages responsible product stewardship to ensure effective long term control of the fungal diseases on this label.

**For additional information on Fungicide Resistance Management:**

- Contact Syngenta representatives at 1-800-334-9481
- Contact your local extension specialist or certified crop advisor
- Visit the Fungicide Resistance Action Committee (FRAC) on the web at: <http://www.frac.info>

## ROTATIONAL CROP RESTRICTIONS

In the event of crop failure or after harvest of soybeans grown from Avicta Complete Beans 500-treated soybean seed, the following crops may be replanted immediately:

Immediate Plantback
Alfalfa
Cereal Grains: Barley, Buckwheat, Corn (field, pop, and sweet), Oat, Pearl Millet, Proso Millet, Rice (Dry-seeded), Rye, Sorghum, Teosinte, Triticale, Wheat, and Wild Rice
Canola
Cotton
Cucurbit Vegetables Crop Group 9
Fruiting Vegetables Crop Group 8
Head and Stem <i>Brassica</i> Crop Subgroup 5A
Leafy <i>Brassica</i> Greens Crop Subgroup 5B
Leafy Vegetables (Except <i>Brassica</i> ), Crop Group 4
Legume Vegetables (Succulent or Dried, Including Soybean) Crop Group 6
Mint: Peppermint and Spearmint
Oilseed Crops: Borage, Crambe, Flax Seed, Mustard Seed, and Safflower
Onion, Dry Bulb
Peanut
Potato
Root Vegetables Crop Subgroup 1A
Strawberry
Sunflower
Tobacco
Tuberous and Corm Vegetables (Except Potato) Crop Subgroup 1D

For any other crop, the minimum plant back interval is 120 days from the date the Avicta Complete Beans 500 treated soybean seeds were planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted

sooner than the 120 day interval; however, the crop may not be grazed or harvested for food or feed.

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## MIXING AND APPLICATION INSTRUCTIONS

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### RESTRICTIONS:

- Consult the Syngenta Seed Care representative or the manufacturer of the application equipment you plan to use regarding the suitability of this application and equipment calibration and operating instructions.
- Always treat seed in a well-ventilated area. Refer to the **Precautionary Statements** section of this label for personal protective equipment requirements and other safety precautions.
- Prepare no more mixture than is needed for the immediate operation.
- Avicta Complete Beans 500 must be thoroughly recirculated in its original container before using. (See **Mixing Instructions**.)
- Apply Avicta Complete Beans 500 as a water-based slurry utilizing standard slurry seed treatment equipment that will provide uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of nematode, insect, or disease protection.
- Thoroughly mix the required amount of Avicta Complete Beans 500 with the amount of water required for the slurry treater and the dilution rate.
- Use an EPA-approved dye or colorant that imparts an unnatural color to the seed.
- Allow seed to dry before bagging / filling containers, and store treated seed away from food and feed.

### Mixing Instructions

1. To dispense Avicta Complete Beans 500 into a mix tank, first attach a pump with fittings (e.g., Micro Matic) that match the fittings on the Avicta Complete Beans 500 container.
2. Recirculate product. Calculate the recirculation time based upon the ability of the pump to completely recirculate the volume of the tank 5-10 times within a 30-minute time period.

3. After the initial recirculation, recirculate for a short period of 5 minutes per day. Attach the dispensing hose to a dry-lock type of fitting that is permanently attached to the mix tank lid.
4. Add 1/4-1/2 of the required amount of water to the mix tank.
5. With the agitator running, add the Avicta Complete Beans 500 to the tank.
6. Continue agitation while adding the remainder of the water.
7. Begin application of the solution after the Avicta Complete Beans 500 has completely dispersed into the mix water.
8. Maintain agitation until all of the mixture has been applied.

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### **CROP USE DIRECTIONS**

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To provide soybean seedlings early-season protection from damage caused by nematodes, including soybean cyst nematode, and the specified insects and diseases on this label, apply Avicta Complete Beans 500 to soybean seed as directed in the **Application** table.

**NOTE:** Soybean seed that can be treated with this product also include those varieties that produce edible (green) soybean seed (edamame).

## Application

To Protect Soybean Seedlings from Damage Caused by These Pests/ Diseases	Amount of Avicta Complete Beans 500 to Apply to Soybean Seed		
	Fl oz of product per 100 lb (cwt) of seed	Total grams of the 4 active ingredients (ai) per 100 kg of seed	Total mg of the 4 active ingredients (ai) per seed
<b>Nematodes</b> (including soybean cyst nematode)  <b>Insects:</b> Aphids Bean beetles Bean leaf beetles Grape colaspis Leaf hoppers Leaf miners Mexican bean beetle Seed corn maggot Three-cornered alfalfa hopper Thrips White grubs Wireworms  <b>Diseases:</b> Damping-off and seed-borne rots due to <i>Pythium</i> and <i>Phytophthora</i> Early-season <i>Phytophthora</i> root rot, <i>Fusarium</i> , and <i>Rhizoctonia</i>  Avicta Complete Beans 500 also suppresses seed-borne <i>Sclerotinia</i> and <i>Phomopsis</i> species.	6.2 fl oz  (@ 3,000 seeds per pound)	160 grams  (@ 3,000 seeds per pound)  <b>NOTE:</b> <ul style="list-style-type: none"> <li>160 g of these 4 active ingredients per 100 kg of seed consists of the following amounts of each active ingredient:   100 g abamectin  50 g thiamethoxam  7.5 g mefenoxam  2.5 g fludioxonil </li> </ul>	0.242 mg  (@ 3,000 seeds per pound)

**Restriction:** Do not use at a rate that will result in more than 0.008 lb fludioxonil per acre per calendar year (4.0 g ai/A), 0.026 lb mefenoxam per acre per calendar year (11.4 g ai/A), or 0.083 lb thiamethoxam per acre per calendar year (37.8 g ai/A) as a seed treatment application. This seed has been treated with 0.0038 mg fludioxonil/seed, 0.0113 mg mefenoxam/seed, and 0.0756 mg thiamethoxam/seed.

## CLEANING SEED TREATMENT EQUIPMENT

Do not use compressed air hoses to remove the dust from the seed treating equipment or the area around the equipment; use a central vacuum system or a HEPA filter portable vacuum cleaner.

## **STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

### **Pesticide Storage**

Store in a cool, dry place.

### **Pesticide Disposal**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

### **Container Handling**

**Non-refillable Container. Do not reuse or refill this container.** Syngenta's authorized agent will pick up the empty container and handle its disposal. Contact Syngenta or its authorized agent to make arrangements for this service and store empty container in a secure area until pick up.

Triple rinse the container as follows: Empty the remaining contents into application equipment or mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later disposal. Repeat this procedure two more times. Then contact Syngenta or its authorized agent for disposal.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean-up immediately. Take special care to avoid contamination of equipment and facilities during clean-up procedures and disposal of wastes.

### **CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!**

Avicta®, the ALLIANCE FRAME,  
the SYNGENTA Logo and the PURPOSE ICON  
are Trademarks of a Syngenta Group Company

Viton® is a trademark of E. I. duPont de Nemours & Co., Inc.

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For non-emergency (e.g. current product information) call  
Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

Avicta Complete Beans 500 1457 MAS 0415 AMEND-D JUL2015 CLEAN.doc – df – 10/25/16  
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Patrick McCain  
Senior Regulatory Product Manager  
Regulatory Affairs, Seed Care  
(336) 632-7317 (phone)  
(336) 632-5688 (fax)  
[patrick.mccain@syngenta.com](mailto:patrick.mccain@syngenta.com)

Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, NC 27419-8300  
[www.syngenta.com](http://www.syngenta.com)

September 9, 2015

Document Processing Desk (**ESUB**) (**AMEND**)  
Office of Pesticide Programs (**7505P**)  
U.S. Environmental Protection Agency  
One Potomac Yard  
2777 South Crystal Drive – Room S-4900  
Arlington, VA 22202

**Attention:** Mr. Mark Suarez – PM Team 7, Invertebrate and Vertebrate Branch 3

**Subject: Avicta® Complete Beans 500**  
**EPA Reg. No. 100-1457**  
**Fast-Track Amendment**

Dear Mr. Suarez:

Syngenta Crop Protection, LLC respectfully requests a label amendment for Avicta Complete Beans 500, EPA Reg. No. 100-1457, to include assorted minor revisions as described below. The vast majority of the proposed revisions are requested as a result of Syngenta's desire to include additional label restrictions related to cleaning activities and PPE. If you'll recall, Syngenta met with EPA on April 28, 2015 to discuss this issue, including proposed PPE and our adjacent stewardship activities (site certification, training, etc.) at the seed treatment facilities that use Avicta products (meeting minutes attached). During this meeting, the Agency verbally agreed to these proposed PPE revisions on all 8 EPA-approved Avicta-brand labels and further, that this could be accomplished through a Fast-Track Amendment process. In addition to the aforementioned PPE and cleaning changes to the label, Syngenta also made some additional revisions to get these labels to current requirements and provide consistency between all Avicta products. These revisions are described below and clearly indicated in the highlighted version of the label included with this submission. Syngenta believes all of these changes meet the requirements of a Fast-Track amendment. The proposed changes are:

- PPE was added per Syngenta's proposal at the aforementioned meeting on April 28, 2015. The PPE revised for each seed treatment worker is clearly indicated in the enclosed label.
- In the Environmental Hazards section, Syngenta included additional label instructions to cover or collect seeds spilled during loading.
- Since this product contains thiamethoxam, added pollinator protection language that is required for seed treatment products containing thiamethoxam.
- In the Groundwater Advisory section, nearly identical label restriction language for the mefenoxam and thiamethoxam components of the product was combined to eliminate redundancy and save label space. This same revision was made to the groundwater advisory language included in the "required seed container statements" section, as well.
- Immediately following the directions for use instructions, added restrictions related to the use of compressed air while cleaning seed treatment equipment.

**DOCUMENTUM**

- Updated the Container Handling language to the latest EPA-approved version
- Included miscellaneous minor formatting changes and corrected typos (indicated in the enclosed highlighted version of the label)
- Eliminated the Non-detachable Container label section of the Master label as this is not required.

### **Fees for Service**

Syngenta believes that consideration of this amendment qualifies for expedited processing under section 3(c)(3)(B)(i)(I) of FIFRA (Fast-Track) and therefore does not require a fee under the Pesticide Registration Improvement Act (PRIA).

Enclosed are:

- Application for Pesticide Registration, EPA Form 8570-1
- PDF of proposed Master Label, including clean and highlighted versions
- Courtesy copy of the Meeting Notes from Abamectin Worker Exposure (WEX) at EPA on April 28, 2015


If you have any questions or comments regarding this submission, please contact me at 336-632-7317.

Sincerely,

Patrick McCain  
Senior Regulatory Product Manager – Seedcare

Enclosures

Please read instructions on reverse before completing form.

	United States <b>Environmental Protection Agency</b> Washington, DC 20460	<input type="checkbox"/> Registration <input checked="" type="checkbox"/> Amendment <input type="checkbox"/> Other	OPP Identifier Number  

### Application for Pesticide - Section I

1. Company/Product Number 100-1457	2. EPA Product Manager Mr. Mark Suarez	3. Proposed Classification  <input type="checkbox"/> None <input checked="" type="checkbox"/> Restricted
4. Company/Product (Name) Avicta <sup>®</sup> Complete Beans 500	PM# 7	
5. Name and Address of Applicant (Include ZIP Code) Syngenta Crop Protection, LLC P. O. Box 18300 Greensboro, NC 27419  <input type="checkbox"/> Check if this is a new address		6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No. _____ Product Name _____

### Section - II

<input checked="" type="checkbox"/> Amendment - Explain below.  <input type="checkbox"/> Resubmission in response to Agency letter dated _____  <input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application.  <input type="checkbox"/> Other - Explain below.
--	---


**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.).

Syngenta Crop Protection, LLC respectfully requests a label amendment for Avicta Complete Beans 500 (EPA Reg. No. 100-1457), to include assorted minor revisions.

### Section - III

<b>1. Material This Product Will Be Packaged In:</b>				<b>2. Type of Container</b>	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
<i>*Certification must be submitted</i>		If "Yes" Unit Packaging wgt.    No. per Container	If "Yes" Unit Packaging wgt.    No. per container		
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 15 gal, Bulk		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Lithograph  <input type="checkbox"/> Paper glued  <input type="checkbox"/> Stenciled                 </div> <div> <input checked="" type="checkbox"/> Other    Pressure Sensitive Label!                 </div> </div>					

### Section - IV

<b>1. Contact Point</b> (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Patrick McCain	Title Senior Regulatory Product Manager – Seed Care	Telephone No. (Include Area Code) 336-632-7317	
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 	3. Title Senior Regulatory Product Manager – Seed Care		
4. Typed Name Patrick McCain	5. Date September 9, 2015		

DOCUMENTUM

\*Respirators?

(Master)

## RESTRICTED USE PESTICIDE

### DUE TO TOXICITY

FOR ~~RETAIL~~ SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

GROUP	4A	6	INSECTICIDES
GROUP	4	12	FUNGICIDES

### Avicta® Complete Beans 500

Nematicide/Insecticide/Fungicide

A seed treatment product that provides soybean seedlings early-season protection from damage caused by nematodes (including soybean cyst nematode) and the listed insects and diseases

For use only in Syngenta-certified seed treatment facilities and only in seed treatment equipment with closed transfer and application systems. Not for use in hopper box, planter box, slurry box, or other farmer-applied applications.

#### Active Ingredients:

Abamectin (CAS No. 71751-41-2).....	22.20%
Thiamethoxam (CAS No. 153719-23-4).....	11.10%
Mefenoxam CAS 70630-17-0, 69516-34-3) .....	1.67%
Fludioxonil (CAS No. 131341-86-1) .....	0.55%
Other Ingredients:	64.48%
Total: .....	100.00%

Avicta Complete Beans 500 is a flowable concentrate containing 2.06 pounds of abamectin, 1.03 pounds of thiamethoxam, 0.15 pounds of mefenoxam, and 0.05 pounds of fludioxonil per gallon.

**KEEP OUT OF REACH OF CHILDREN.**

## WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-1457

EPA Est.

SCP

[Net Contents Placeholder] \_\_\_\_\_ gallons

Net Contents

<b>FIRST AID</b>	
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<p align="center"><b>HOT LINE NUMBER</b>            For 24-Hour Medical Emergency Assistance (Human or Animal)            Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident)            Call  <b>1-800-888-8372</b></p>	

## **PRECAUTIONARY STATEMENTS**

### **Hazards to Humans and Domestic Animals**

#### **WARNING/AVISO**

May be fatal if inhaled. May be fatal if swallowed. Do not breathe vapor/spray mist. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

The following personal protective equipment and clothing are required when using this product:

## Personal Protective Equipment (PPE)

### I. Seed Treatment Workers

**A. Workers involved with treating the seed (e.g., connecting and disconnecting hoses and transfer pumps, mixing, equipment calibration, etc.) must wear:**

- Chemical-resistant gloves: ~~made of any waterproof material~~ — Category A (e.g., natural rubber ≥ 14 mils, barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, or Viton® ≥ 14 mils)
- Protective eyewear
- Coveralls worn over long-sleeved shirt and long pants
- Chemical-resistant apron
- Shoes and socks.
- NIOSH-approved respirator with any N, R, P, or HE filter.

**B. Workers Filling Seed Containers/Baggers and Bag Sewers must wear:**

- ~~Chemical-resistant gloves: made of any waterproof material~~ — Category A (e.g., natural rubber > 14 mils, barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, or Viton ≥ 14 mils)
- Protective eyewear
- Coveralls worn over long sleeved shirt and long pants
- Shoes and socks.
- NIOSH-approved respirator with any N, R, P, or HE filter

**C. Workers involved with the clean-up and maintenance of seed treatment equipment must wear:**

- ~~Chemical resistant gloves (minimum length 12 inches): made of any waterproof material~~ — Category A (e.g., natural rubber ≥ 14 mils, barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, or Viton ≥ 14 mils [Note: gloves should be taped down to the sleeves of the coveralls.]
- Protective eyewear
- Chemical-resistant, hooded coveralls worn over long-sleeved shirt and long pants
- Shoes and socks.
- NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter

a combination HE filter

Handwritten notes and signatures at the bottom of the page, including "Keri" and "Nancy".

#### D. Multiple Task Workers must wear:

(Multiple task workers perform multiple tasks in one day such as mixing, product application, filling seed containers/bagging, bag sewing, and clean-up.)

- Chemical-resistant gloves: ~~(when handling treated seeds and equipment clean-up)~~ made of any waterproof material — Category A (e.g., natural rubber ≥ 14 mils) barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, or Viton ≥ 14 mils. [Note: when performing seed treatment equipment clean-up procedures, gloves must be at least 12 inches long and should be taped down to the sleeves of the coveralls.]
- Protective eyewear ~~(when treating seed and during clean-up)~~
- Long-sleeved shirt and long pants
- Chemical-resistant, hooded coveralls over long-sleeved shirt and long pants (required when performing seed treatment equipment clean-up procedures)
- Shoes and socks.
- Dust/mist filtering respirator (dust mask) NIOSH-approved respirator with any N, R, P, or HE filter

#### Environmental Hazards

This pesticide product is toxic to ~~fish and~~ wildlife. ~~freshwater and estuarine/marine fish~~ and highly toxic to aquatic invertebrates. Exposed ~~t~~ treated seeds exposed on the soil surface may be hazardous to wildlife. Cover or collect seeds spilled during loading. Do not contaminate water when disposing of equipment wash-water or rinsate.

This pesticide product contains the active ingredient thiamethoxam, which is highly toxic to bees exposed to direct treatment. Effects may be possible as a result of exposure to translocated residues in blooming crops.

#### Pollinator Precautions

Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming crops.

#### Groundwater Advisory

This ~~pesticide~~ product contains the active ingredient mefenoxam, which is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of mefenoxam in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This product also contains thiamethoxam, which has properties and characteristics associated with chemicals detected in ground-water. Use of this product in areas where soils are permeable, particularly where the water table is shallow, may

~~result in groundwater contamination. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.~~

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## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.



## DIRECTIONS FOR USE

### RESTRICTED USE PESTICIDE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

#### RESTRICTIONS:

- Avicta Complete Beans 500 is for use only in Syngenta-certified seed treatment facilities and only in seed treatment equipment with closed transfer and application systems. Use in hopper box, planter box, slurry box, or other farmer-applied applications is not permitted.
- Treatment of highly mechanically scarred or damaged seed or seed known to be of low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Conduct germination tests with a representative sample of the seed lot before committing the total seed lot to a selected seed treatment. Because seed quality and seed storage conditions are beyond the control of Syngenta, no claims are made to guarantee the germination of seed or propagating material for all crops.
- Seed treated with this product must be visually identifiable from untreated seed by the use of an approved colorant or dye to prevent accidental use of treated seed as food for humans or feed for animals. Refer to 21 CFR, Part 2.25. Any colorant or dye added to treated seed must be cleared for use in accordance with 40 CFR, Part 153.155(c). Refer to the section on this label **REQUIRED SEED CONTAINER STATEMENTS** for language that must appear on the container or on the tag that is attached to the container of treated seed.

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#### PRODUCT INFORMATION

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Avicta Complete Beans 500 is a seed treatment nematicide/insecticide/fungicide for soybeans. Avicta Complete Beans 500 contains the active ingredients abamectin, thiamethoxam, mefenoxam, and fludioxonil. When applied to soybean seed, Avicta Complete Beans 500 will provide soybean seedlings early-season protection from damage caused by nematodes (including soybean cyst nematode) and from the insects, soil-borne diseases, and seed-borne diseases specified in the **Crop Use Directions**. Refer to the **Crop Use Directions** for application instructions.

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## REQUIRED SEED CONTAINER STATEMENTS

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User is responsible for ensuring that the seed container meets all requirements under the Federal Seed Act.

The Federal Seed Act requires that the container of soybean seed treated with Avicta Complete Beans 500 shall be labeled with the following statements:

- This seed has been treated with abamectin nematicide, thiamethoxam insecticide, and mefenoxam and fludioxonil fungicides.
- Do not use treated seed for feed, food, or oil purposes.

In addition, the U.S. Environmental Protection Agency requires the following statements on the container of soybean seed treated with Avicta Complete Beans 500.

- Wear long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves when handling treated seed.
- Treated seed must be planted into the soil at a depth greater than 1 inch.

- **Ground-Water Advisory:** This pesticide product contains the active ingredient mefenoxam, which is known to leach through soil into groundwater under certain conditions as a result of agricultural use. ~~Use of mefenoxam in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.~~ *what conditions?*

This product also contains thiamethoxam, which has properties and characteristics associated with chemicals detected in ground-water. Use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

~~This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.~~

- **Pollinator Precautions:** This product contains thiamethoxam, which is highly toxic to bees. Effects are possible as a result of exposure to translocated residues in blooming crops.
- Excess treated seed may be used for biofuel production only if:
  - (1) By-products are not used for livestock feed, and
  - (2) No measurable residues of pesticides remain in ethanol by-products that are used for agronomic practice.
- To protect ~~wildlife~~ and aquatic organisms, follow these practices:

- Treated seeds exposed on soil surface may be hazardous to wildlife; cover or collect treated seeds that are spilled during loading and in areas such as row ends.
- Dispose of all excess treated seed by burying seed away from bodies of water.
- Do not contaminate bodies of water when disposing of planting equipment wash water.
- Store <sup>leaked seed</sup> away from food and feedstuffs.
- Do not allow children, pets, or livestock to have access to treated seeds.
- Plant Avicta Complete Beans 500-treated soybean seed based upon the local planting dates and soil temperatures that are recommended by your state agricultural extension agent. In areas with a history of high nematode populations, a soil fumigant may be recommended.

Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre per year (37.8 g a.i./A) or a seed treatment application. This seed has been treated with 0.0756 mg thiamethoxam/seed. Do not use at a rate that will result in more than 0.008 lb fludioxonil per acre per calendar year (4.0 g a.i./A), 0.026 lb metenoxam per acre per calendar year (11.4 g a.i./A), or 0.083 lb thiamethoxam per acre per calendar year (37.8 g a.i./A) as a seed treatment application. This seed has been treated with 0.0038 mg fludioxonil/seed, 0.0113 mg metenoxam/seed, and 0.0756 mg thiamethoxam/seed.

- Dispose of seed packaging in accordance with local requirements.
- After the seeds have been planted, do not enter or allow worker entry into treated areas during the restricted entry interval (REI) which is 48 hours. **Exception:** Once the seeds are planted into the soil workers are permitted to enter the treated area immediately if there will be no worker contact with the soil subsurface.
- Wait a minimum of 45 days after planting Avicta Complete Beans 500-treated soybean seed before treating the soybeans with a neonicotinoid insecticide.
- In the event of crop failure or after harvest of soybeans grown from Avicta Complete Beans 500-treated soybean seed, the following crops may be replanted immediately:

Immediate Plantback	
Alfalfa ✓	
<del>Brassica (Cole) Leafy Vegetable Crop Group</del>	
Cereal Grains <del>Crop Group 10</del> : Barley, Buckwheat, Corn (field, pop, and sweet), Oat, Pearl Millet, Proso Millet, Rice (Dry-seeded), Rye, Sorghum, Teosinte, Triticale, Wheat, and Wild Rice ✓	
Canola ✓	
Cotton ✓	
Cucurbit Vegetables Crop Group 9 ✓	
Fruiting Vegetables Crop Group 8 ✓	
<del>Globe Amaranth</del>	
<del>Hops</del>	
<del>Head and Stem Brassica Crop Subgroup 5A</del> ✓	
<del>Leafy Brassica Greens Crop Subgroup 5B</del> ✓	
Leafy Vegetables <del>(Except Brassica)</del> Crop Group 4 ✓	
Legume Vegetables (Succulent or Dried, Including Soybean) Crop Group 6 ✓	
Mint: Peppermint and Spearmint ✓	
Oilseed Crops: Borage, Crambe, Flax Seed, Mustard Seed, and Safflower ✓	
Onion, <del>Dry Bulb</del> <del>Crop Subgroup 9-07A</del> ✓	
Peanut ✓	
<del>Potato</del> ✓	
Root <del>and Tuber</del> Vegetables Crop <del>Subgroup 1A</del> ✓	
Strawberry ✓	
Sunflower ✓	
Tobacco ✓	
<del>Tuberous and Corm Vegetables (Except Potato) Crop Subgroups 1B</del> ✓	

For any other crop, the minimum plant back interval is 120 days from the date the Avicta Complete Beans 500 treated soybean seeds were planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted

sooner than the 120 day interval; however, the crop may not be grazed or harvested for food or feed.

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## RESISTANCE MANAGEMENT

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GROUP	4A	6	INSECTICIDES
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Avicta Complete Beans 500 contains thiamethoxam, a Group 4A insecticide, and abamectin, a Group 6 insecticide. Thiamethoxam is a systemic insecticide belonging to the neonicotinoid class of chemistry which includes nicotinic acetylcholine receptor (nAChR) agonists. Abamectin belongs to the avermectin class of chemistry which affects nerves and muscles.

Insect populations may contain individuals naturally resistant to Group 4A and 6 insecticides and if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, use sound resistance management strategies established for the crop and use area.

Base seed treatment on an integrated pest management program that includes field sanitation, historical information related to pesticide use, careful selection of pest-tolerant crop varieties, scouting, and management practices which optimize populations of natural enemies of insect pests such as within-field refugia (untreated areas). Sound management programs also consider cultural and biological control practices.

### In order to maintain susceptibility to these classes of chemistry:

- Use products at their full, **recommended specified** doses.
- Use appropriate, well-maintained equipment. Use **recommended specified** water volumes and apply at optimal temperatures in order to obtain optimal treatment.
- When rate ranges are given, use the higher rate within the listed rate range when insect pressure is expected to be high.
- Avoid using a single active ingredient or mode of action (same insecticide group) exclusively for season long control of insect species with more than one generation per crop season.
- For insect species with successive or overlapping generations, use a treatment window approach. A treatment window is a period of time defined by the stage of crop development and the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, single or consecutive applications may be made using seed, in-furrow, or foliar treatments unless otherwise excluded by product labels. Do not exceed the maximum amount of this insecticide's mode of action allowed per growing season.
- Following a treatment window of this insecticide's mode of action, rotate to a treatment window of effective products with a different mode of action before making additional applications of this insecticide.

If resistance to this product develops in your area, this product or other products with a similar mode of action may not provide adequate control. If poor performance cannot be attributed to improper application or weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for the crop and use area.

Syngenta encourages responsible product stewardship to ensure effective long term control of the insect pests on this label.

**For additional information on Insect Resistance Management:**

- Contact Syngenta representatives at 1-800-334-9481
- Contact your local Cooperative Extension Service specialist, pest control advisor, or certified crop advisor
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at: <http://www.irac-online.org>

<b>GROUP 4 12 FUNGICIDES</b>
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Avicta Complete Beans 500 contains mefenoxam, a Group 4 fungicide, and fludioxonil, a Group 12 fungicide. Mefenoxam belongs to the phenylamide class of chemistry which interferes with fungal RNA synthesis. Fludioxonil belongs to the phenylpyrrole class of chemistry which interferes with osmotic signal transduction.

Fungal populations may contain individuals naturally resistant to Group 4 or 12 fungicides and if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies such as alternation with fungicides with a different mode of action and/or tank mixes established for the crop and use area.

Use should be based on an IPM program that includes field sanitation, scouting, historical information related to pesticide use, and crop rotation. The IPM program should also consider cultural, biological, and other chemical control practices.

Syngenta encourages responsible product stewardship to ensure effective long term control of the fungal diseases on this label.

**For additional information on Fungicide Resistance Management:**

- Contact Syngenta representatives at 1-800-334-9481
- Contact your local extension specialist or certified crop advisor
- Visit the Fungicide Resistance Action Committee (FRAC) on the web at: <http://www.frac.info>

## ROTATIONAL CROP RESTRICTIONS

In the event of crop failure or after harvest of soybeans grown from Avicta Complete Beans 500 treated soybean seed, the following crops may be replanted immediately:

### Immediate Plantback

#### Alfalfa

Cereal Grains: Barley, Buckwheat, Corn (field, pop, and sweet), Oat, Pearl Millet, Proso Millet, Rice (Dry-seeded), Rye, Sorghum, Teosinte, Triticale, Wheat, and Wild Rice

#### Canola

#### Cotton

#### Cucurbit Vegetables (Crop Group 3)

#### Fruiting Vegetables (Crop Group 3)

#### Head and Stem Brassica Crop Subgroup 5A

#### Leafy Brassica Greens Crop Subgroup 5B

#### Leafy Vegetables (Except Brassica), Crop Group 4

#### Legume Vegetables (Succulent or Dried, Including Soybean) Crop Group 6

#### Mint, Peppermint and Spearmint

#### Oilseed Crops: Forage, Orange, Flax Seed, Mustard Seed, and Safflower

#### Onion, Dry Bulb

#### Peanut

#### Potato

#### Root Vegetables (Crop Subgroup 1A)

#### Strawberry

#### Sunflower

#### Tobacco

#### Tuberous and Corm Vegetables (Except Potato) Crop Subgroup 1B

For any other crop, the minimum plant back interval is 120 days from the date the Avicta Complete Beans 500 treated soybean seeds were planted. A crop is considered a replant crop if the crop failed under conditions suitable for soybean control or soil improvement. For a replant



sooner than the 120 day interval; however, the crop may not be grazed or harvested for food or feed.

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## MIXING AND APPLICATION INSTRUCTIONS

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### RESTRICTIONS:

- Consult the Syngenta Seed Care representative or the manufacturer of the application equipment you plan to use regarding the suitability of this application and equipment calibration and operating instructions.
- Always treat seed in a well-ventilated area. Refer to the **Precautionary Statements** section of this label for personal protective equipment requirements and other safety precautions.
- Prepare no more mixture than is needed for the immediate operation.
- Avicta Complete Beans 500 must be thoroughly recirculated in its original container before using. (See **Mixing Instructions**.)
- Apply Avicta Complete Beans 500 as a water-based slurry utilizing standard slurry seed treatment equipment that will provide uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of nematode, insect, or disease protection.
- Thoroughly mix the required amount of Avicta Complete Beans 500 with the amount of water required for the slurry treater and the dilution rate.
- Use an EPA-approved dye or colorant that imparts an unnatural color to the seed.
- Allow seed to dry before bagging / filling containers, and store treated seed away from food and feed.

### Mixing Instructions

1. To dispense Avicta Complete Beans 500 into a mix tank, first attach a pump with fittings (e.g., Micro Matic) that match the fittings on the Avicta Complete Beans 500 container.
2. Recirculate product. Calculate the recirculation time based upon the ability of the pump to completely recirculate the volume of the tank 5-10 times within a 30-minute time period.



3. After the initial recirculation, recirculate for a short period of 5 minutes per day. Attach the dispensing hose to a dry-lock type of fitting that is permanently attached to the mix tank lid.
4. Add 1/4-1/2 of the required amount of water to the mix tank.
5. With the agitator running, add the Avicta Complete Beans 500 to the tank.
6. Continue agitation while adding the remainder of the water.
7. Begin application of the solution after the Avicta Complete Beans 500 has completely dispersed into the mix water.
8. Maintain agitation until all of the mixture has been applied.

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#### **CROP USE DIRECTIONS**

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To provide soybean seedlings early-season protection from damage caused by nematodes, including soybean cyst nematode, and the specified insects and diseases on this label, apply Avicta Complete Beans 500 to soybean seed as directed in the **Application** table.

**NOTE:** Soybean seed that can be treated with this product also include those varieties that produce edible (green) soybean seed (edamame).

## Application

To Protect Soybean Seedlings from Damage Caused by These Pests/ Diseases	Amount of Avicta Complete Beans 500 to Apply to Soybean Seed		
	Fl oz of product per 100 lb (cwt) of seed	Total grams of the 4 active ingredients (ai) per 100 kg of seed	Total mg of the 4 active ingredients (ai) per seed
<b>Nematodes</b> (including soybean cyst nematode)  <b>Insects:</b> Aphids Bean beetles Bean leaf beetles Grape colaspis Leaf hoppers Leaf miners Mexican bean beetle Seed corn maggot Three-cornered alfalfa hopper Thrips White grubs Wireworms  <b>Diseases:</b> Damping-off and seed-borne rots due to <i>Pythium</i> and <i>Phytophthora</i> Early-season <i>Phytophthora</i> root rot, <i>Fusarium</i> , and <i>Rhizoctonia</i>  Avicta Complete Beans 500 also suppresses seed-borne <i>Sclerotinia</i> and <i>Phomopsis</i> species.	6.2 fl oz  (@ 3,000 seeds per pound)	160 grams  (@ 3,000 seeds per pound)  <b>NOTE:</b> • 160 g of these 4 active ingredients per 100 kg of seed consists of the following amounts of each active ingredient:  100 g abamectin 50 g thiamethoxam 7.5 g mephenoxam 2.5 g fludioxonil	0.242 mg  (@ 3,000 seeds per pound)

**Restriction:** Do not use at a rate that will result in more than 0.008 lb fludioxonil per acre per calendar year (4.0 g ai/A), 0.026 lb mephenoxam per acre per calendar year (11.4 g ai/A), or 0.033 lb thiamethoxam per acre per calendar year (13.7 g ai/A) as a seed treatment application. This seed has been treated with 1.0036 mg fludioxonil/seed, 0.0113 mg mephenoxam/seed, and 0.0756 mg thiamethoxam/seed.

asa  
Seed  
treat.  
Product?  
or  
overall?

## CLEANING SEED TREATMENT EQUIPMENT

Do not use compressed air hoses to remove the dust from the seed treating equipment or the area around the equipment; use a central vacuum system or a HEPA filter portable vacuum cleaner.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. ~~Open dumping is prohibited.~~

### Pesticide Storage

Store in a cool, dry place.

### Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal ~~ILaw~~. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

### Container Handling

**Non-refillable Container. Do not reuse or refill this container.** Syngenta's authorized agent will pick up the empty container and handle its disposal. Contact Syngenta or its authorized agent to make arrangements for this service and store empty container in a secure area until pick up.

~~Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, Triple rinse the container as follows: Empty the remaining contents into a rinsate collection system and drain for 10 seconds after the flow begins to drip. application equipment or mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other endside and tip it back and forth several times. Empty the rinsate into a rinsate collection system application equipment or a mix tank or store rinsate for later disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed approved by state and local authorities.~~

For minor spills, leaks, etc., follow all precautions indicated on this label and clean-up immediately. Take special care to avoid contamination of equipment and facilities during clean-up procedures and disposal of wastes.

### **CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!**

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Viton® is a trademark of E. I. duPont de Nemours & Co., Inc.

contradictory

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For non-emergency (e.g. current product information) call  
Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

Avicta Complete Beans 500 1457 MAS 0415 AMEND-B JUL2015 HILITE.doc – df – 3/4/16  
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(Non-Detachable Container Label)

**RESTRICTED USE PESTICIDE  
DUE TO TOXICITY**

FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR  
PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES  
COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

GROUP	4A	6	INSECTICIDES
GROUP	4	12	FUNGICIDES

**Avicta® Complete Beans 500**

Nematicide/Insecticide/Fungicide

A seed treatment product that provides soybean seedlings early season protection from damage caused by nematodes (including soybean cyst nematode) and the listed insects and diseases

For use only in Syngenta certified seed treatment facilities and only in seed treatment equipment with closed transfer and application systems. Not for use in hopper box, planter box, slurry box, or other farmer applied applications.

**Active Ingredients:**

Abamectin (CAS No. 71751-41-2)	22.20%
Thiamethoxam (CAS No. 153719-23-4)	11.10%
Mefenoxam CAS 70630-17-0, 69516-34-3)	1.67%
Fludioxonil (CAS No. 131341-86-1)	0.55%
Other Ingredients:	64.48%
Total:	100.00%

Avicta Complete Beans 500 contains 2.06 pounds of abamectin, 1.03 pounds of thiamethoxam, 0.15 pounds of mefenoxam, and 0.05 pounds of fludioxonil per gallon.

**KEEP OUT OF REACH OF CHILDREN.**

**WARNING/AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-1457

EPA Est.

SCP 1457

[Net Contents Placeholder]

Net Contents

## PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

### Warning/aviso

May be fatal if swallowed or inhaled. Do not breathe vapor. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

#### FIRST AID

If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
If swallowed	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	

#### HOT LINE NUMBER

For 24-Hour Medical Emergency Assistance (Human or Animal)  
Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident)  
Call  
**1-800-888-8372**

#### **Environmental Hazards**

~~This pesticide product is toxic to fish and wildlife and highly toxic to aquatic invertebrates. Exposed treated seeds may be hazardous to wildlife. Do not contaminate water when disposing of equipment wash water.~~

~~This pesticide product contains thiamethoxam, which is highly toxic to bees exposed to direct treatment. Effects may be possible as a result of exposure to translocated residues in blooming crops.~~

#### **Groundwater Advisory**

~~This pesticide product contains the active ingredient mefenoxam, which is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of mefenoxam in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.~~

~~This product contains thiamethoxam, which has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.~~



**Storage and disposal now in a box**

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

**Pesticide Storage**

Store in a cool, dry place.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

**Pesticide Disposal**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**Container Handling**

**Non-refillable Container.** Do not reuse or refill this container. Syngenta's authorized agent will pick up the empty container and handle its disposal. Contact Syngenta or its authorized agent to make arrangements for this service and store empty container in a secure area until pick up.

**Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, triple rinse the container as follows:** Empty the remaining contents into a rinsate collection system and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other side and tip it back and forth several times. Empty the rinsate into a rinsate collection system or store rinsate for later disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

**CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.**

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For non-emergency (e.g. current product information) call  
Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

SCP 1457

Avicta Complete Beans 500 1457 MAS 0415 —rk— 4/28/15

Immediate Plantback	
Alfalfa ✓	
Brassica (Cole) Leafy Vegetables <del>Crop Group 5</del> SA, 5B → 40 CFR	
Cereal Grains <del>Crop Group 15</del> : Barley, Buckwheat, Corn (field, pop, and sweet), Oat, Pearl Millet, Proso Millet, Rice (Dry-seeded), Rye, Sorghum, Teosinte, Triticale, Wheat, and Wild Rice ✓	
Canola ✓	
Cotton ✓	
Cucurbit Vegetables Crop Group 9 ✓	} 40 CFR
Fruiting Vegetables Crop Group 8 ✓	
<del>Globe Artichoke</del> ✗	
<del>Hops</del> ✗	
Leafy Vegetables <del>Crop Group 4</del> ✓ (except Brassica) 40 CFR	
Legume Vegetables (Succulent or Dried, Including Soybean) <del>Crop Group 6</del> ✓ 40 CFR	
Mint: Peppermint and Spearmint ✓	
Oilseed Crops: Borage, Crambe, Flax Seed, Mustard Seed, and Safflower ✓	
<del>Onion, Bulb, Crop Subgroup 3-07A</del> → dry bulb onions	
Peanut ✓	
Root and Tuber Vegetables <del>Crop Group 1</del> ✓ [1A : 1D] 40 CFR	
Strawberry ✓	
Sunflower ✓	
Tobacco ✓	

For any other crop, the minimum plant back interval is 120 days from the date the Avicta Complete Beans 500 treated soybean seeds were planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120 day interval; however, the crop may not be grazed or harvested for food or feed.

- 1204 (abam.)  
- 941 (7flx)  
- 799 (mefen)  
- 1420 (100)  
(Master)

due 12/9

## RESTRICTED USE PESTICIDE

### DUE TO TOXICITY

FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

GROUP	4A	6	INSECTICIDES
GROUP	4	12	FUNGICIDES

### Avicta® Complete Beans 500

#### Nematicide/Insecticide/Fungicide

A seed treatment product that provides soybean seedlings early-season protection from damage caused by nematodes (including soybean cyst nematode) and the listed insects and diseases

For use only in Syngenta-certified seed treatment facilities and only in seed treatment equipment with closed transfer and application systems. Not for use in hopper box, planter box, slurry box, or other farmer-applied applications.

#### Active Ingredients:

Abamectin (CAS No. 71751-41-2)..... 22.20%

Thiamethoxam (CAS No. 153719-23-4)..... 11.10%

○ Mefenoxam CAS 70630-17-0, 69516-34-3) ..... 1.67%

○ Fludioxonil (CAS No. 131341-86-1) ..... 0.55%

Other Ingredients: ..... 64.48%

Total: ..... 100.00%

Avicta Complete Beans 500 is a flowable concentrate containing 2.06 pounds of abamectin, 1.03 pounds of thiamethoxam, 0.15 pounds of mefenoxam, and 0.05 pounds of fludioxonil per gallon.

**KEEP OUT OF REACH OF CHILDREN.**

## WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-1457

EPA Est.

SCP

[Net Contents Placeholder] \_\_\_\_\_ gallons

Net Contents

<b>FIRST AID</b>	
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<p align="center"><b>HOT LINE NUMBER</b>            For 24-Hour Medical Emergency Assistance (Human or Animal)            Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident)            Call  <b>1-800-888-8372</b></p>	

## **PRECAUTIONARY STATEMENTS**

### **Hazards to Humans and Domestic Animals**

## **WARNING/AVISO**

May be fatal if inhaled. May be fatal if swallowed. Do not breathe vapor/spray mist. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

The following personal protective equipment and clothing are required when using this product:

## **Personal Protective Equipment (PPE)**

### **I. Seed Treatment Workers**

**A. Workers involved with treating the seed (e.g., connecting and disconnecting hoses and transfer pumps, mixing, equipment calibration, etc.) must wear:**

- Chemical-resistant gloves: ~~made of any waterproof material — Category A (e.g., natural rubber ≥ 14 mils)~~ barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, or Viton® ≥ 14 mils.
- Protective eyewear
- Coveralls worn over long-sleeved shirt and long pants
- Chemical-resistant apron
- Shoes and socks-
- NIOSH-approved respirator with any N, R, P, or HE filter

### **B. Workers Filling Seed Containers/Baggers and Bag Sewers must wear:**

- Chemical-resistant gloves: ~~made of any waterproof material — Category A (e.g., natural rubber ≥ 14 mils)~~ barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, or Viton® ≥ 14 mils.
- Protective eyewear
- Coveralls worn over long sleeved shirt and long pants
- Shoes and socks-
- NIOSH-approved respirator with any N, R, P, or HE filter

**C. Workers involved with the clean up and maintenance of seed treatment equipment must wear:**

- Chemical resistant gloves (minimum length 12 inches): ~~made of any waterproof material — Category A (e.g., natural rubber ≥ 14 mils)~~ barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, or Viton® ≥ 14 mils. [Note: gloves should be taped down to the sleeves of the coveralls.]
- Protective eyewear
- Chemical-resistant, hooded coveralls worn over long-sleeved shirt and long pants
- Shoes and socks-
- NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter

### **D. Multiple Task Workers must wear:**

(Multiple task workers perform multiple tasks in one day such as mixing, product application, filling seed containers/bagging, bag sewing, and clean up)

- Chemical-resistant gloves: ~~(when handling treated seeds and equipment clean-up)~~ ~~made of any waterproof material~~ Category A (e.g., natural rubber ≥ 14 mils) barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, or Viton® ≥ 14 mils. [Note: when performing seed treatment equipment clean-up procedures, gloves must be at least 12 inches long and should be taped down to the sleeves of the coveralls.]
- Protective eyewear ~~(when treating seed and during clean-up)~~
- Long-sleeved shirt and long pants
- Chemical-resistant, hooded coveralls over long-sleeved shirt and long pants (required when performing seed treatment equipment clean-up procedures)
- Shoes and socks.
- ~~Dust/mist filtering respirator (dust mask)~~ NIOSH-approved respirator with any N, R, P, or HE filter

### Environmental Hazards

This pesticide product is toxic to fish and wildlife, and highly toxic to aquatic invertebrates. ~~Exposed~~ Treated seeds exposed on the soil surface may be hazardous to wildlife. Cover or collect seeds spilled during loading. Do not contaminate water when disposing of equipment wash-water or rinsate.

This pesticide product contains the active ingredient thiamethoxam, which is highly toxic to bees exposed to direct treatment. Effects may be possible as a result of exposure to translocated residues in blooming crops.

### Pollinator Precautions

Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming crops.

### Groundwater Advisory

This ~~pesticide~~ product contains the active ingredient mefenoxam, which is known to leach through soil into groundwater under certain conditions as a result of agricultural use. ~~Use of mefenoxam in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.~~

This product also contains thiamethoxam, which has properties and characteristics associated with chemicals detected in ground water. Use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. ~~This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.~~

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**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

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**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

# DIRECTIONS FOR USE

## RESTRICTED USE PESTICIDE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

### RESTRICTIONS:

- Avicta Complete Beans 500 is for use only in Syngenta-certified seed treatment facilities and only in seed treatment equipment with closed transfer and application systems. Use in hopper box, planter box, slurry box, or other farmer-applied applications is not permitted.
- Treatment of highly mechanically scarred or damaged seed or seed known to be of low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Conduct germination tests with a representative sample of the seed lot before committing the total seed lot to a selected seed treatment. Because seed quality and seed storage conditions are beyond the control of Syngenta, no claims are made to guarantee the germination of seed or propagating material for all crops.
- Seed treated with this product must be visually identifiable from untreated seed by the use of an approved colorant or dye to prevent accidental use of treated seed as food for humans or feed for animals. Refer to 21 CFR, Part 2.25. Any colorant or dye added to treated seed must be cleared for use in accordance with 40 CFR, Part 153.155(c). Refer to the section on this label **REQUIRED SEED CONTAINER STATEMENTS** for language that must appear on the container or on the tag that is attached to the container of treated seed.

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## PRODUCT INFORMATION

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Avicta Complete Beans 500 is a seed treatment nematicide/insecticide/fungicide for soybeans. Avicta Complete Beans 500 contains the active ingredients abamectin, thiamethoxam, mefenoxam, and fludioxonil. When applied to soybean seed, Avicta Complete Beans 500 will provide soybean seedlings early-season protection from damage caused by nematodes (including soybean cyst nematode) and from the insects, soil-borne diseases, and seed-borne diseases specified in the **Crop Use Directions**. Refer to the **Crop Use Directions** for application instructions.



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## REQUIRED SEED CONTAINER STATEMENTS

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User is responsible for ensuring that the seed container meets all requirements under the Federal Seed Act.

The Federal Seed Act requires that the container of soybean seed treated with Avicta Complete Beans 500 shall be labeled with the following statements:

- This seed has been treated with abamectin nematicide, thiamethoxam insecticide, and mefenoxam and fludioxonil fungicides.
- Do not use treated seed for feed, food, or oil purposes.

In addition, the U.S. Environmental Protection Agency requires the following statements on the container of soybean seed treated with Avicta Complete Beans 500.

- Wear long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves when handling treated seed.
- Treated seed must be planted into the soil at a depth greater than 1 inch.

- **Ground Water Advisory:** This pesticide product contains the active ingredient mefenoxam, which is known to leach through soil into groundwater under certain conditions as a result of agricultural use. ~~Use of mefenoxam in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.~~

This product also contains thiamethoxam, which has properties and characteristics associated with chemicals detected in ground water. Use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

~~This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.~~

- **Pollinator Precautions:** This product contains thiamethoxam, which is highly toxic to bees. Effects are possible as a result of exposure to translocated residues in blooming crops.
- Excess treated seed may be used for biofuel production only if:
  - (1) By-products are not used for livestock feed, and
  - (2) No measurable residues of pesticides remain in ethanol by-products that are used for agronomic practice.

- To protect wildlife and aquatic organisms, follow these practices:
  - Treated seeds exposed on soil surface may be hazardous to wildlife; cover or collect treated seeds that are spilled during loading and in areas such as row ends.
  - Dispose of all excess treated seed by burying seed away from bodies of water.
  - Do not contaminate bodies of water when disposing of planting equipment wash water.
- Store away from food and feedstuffs.
- Do not allow children, pets, or livestock to have access to treated seeds.
- Plant Avicta Complete Beans 500-treated soybean seed based upon the local planting dates and soil temperatures that are recommended by your state agricultural extension agent. In areas with a history of high nematode populations, a soil fumigant may be recommended.
- Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre per year (37.8 grams ai/A) as a seed treatment application. This seed has been treated with 0.0756 mg thiamethoxam/seed.
- Dispose of seed packaging in accordance with local requirements.
- After the seeds have been planted, do not enter or allow worker entry into treated areas during the restricted entry interval (REI) which is 48 hours. **Exception:** Once the seeds are planted into the soil workers are permitted to enter the treated area immediately if there will be no worker contact with the soil subsurface.
- Wait a minimum of 45 days after planting Avicta Complete Beans 500-treated soybean seed before treating the soybeans with a neonicotinoid insecticide.
- In the event of crop failure or after harvest of soybeans grown from Avicta Complete Beans 500-treated soybean seed, the following crops may be replanted immediately:

$$\rightarrow \text{Metoxam: } \frac{0.013 \text{ lb}}{\text{acre}} \left( \frac{15.7 \text{ g}}{\text{acre}} \right) / \text{yr}$$

$$\text{Flud. } \frac{0.004 \text{ lb}}{\text{acre}} \left( \frac{2.0 \text{ g}}{\text{acre}} \right) / \text{yr}$$

*check*

Immediate Plantback	
✓ Alfalfa ✓	
✓ Brassica (Cole) Leafy Vegetables Crop Group 5 –	
✗ Cereal Grains <del>Crop Group 15</del> : Barley, Buckwheat, Corn (field, pop, and sweet), Oat, Pearl Millet, Proso Millet, Rice (Dry-seeded), Rye, Sorghum, Teosinte, Triticale, Wheat, and Wild Rice	
✓ Canola	
✓ Cotton	
✓ Cucurbit Vegetables Crop Group 9	
✓ Fruiting Vegetables Crop Group 8	
Globe Artichoke	
Hops	
✓ Leafy Vegetables Crop Group 4	<i>except for 303516</i>
✓ Legume Vegetables (Succulent or Dried, Including Soybean) Crop Group 6	
✓ Mint: Peppermint and Spearmint	
✓ Oilseed Crops: Borage, Crambe, Flax Seed, Mustard Seed, and Safflower	
Onion, Bulb, Crop Subgroup 3-07A	<i>Dry bulb onion</i>
✗ Peanut	
Root and Tuber Vegetables Crop Group 1	<i>[group 1A, 4] ✓</i>
Strawberry ✓	
Sunflower ✓	
Tobacco ✓	

For any other crop, the minimum plant back interval is 120 days from the date the Avicta Complete Beans 500 treated soybean seeds were planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120 day interval; however, the crop may not be grazed or harvested for food or feed.

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## RESISTANCE MANAGEMENT

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GROUP	4A	6	INSECTICIDES
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Avicta Complete Beans 500 contains thiamethoxam, a Group 4A insecticide, and abamectin, a Group 6 insecticide. Thiamethoxam is a systemic insecticide belonging to the neonicotinoid class of chemistry which includes nicotinic acetylcholine receptor (nAChR) agonists. Abamectin belongs to the avermectin class of chemistry which affects nerves and muscles.

Insect populations may contain individuals naturally resistant to Group 4A and 6 insecticides and if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, use sound resistance management strategies established for the crop and use area.

Base seed treatment on an integrated pest management program that includes field sanitation, historical information related to pesticide use, careful selection of pest-tolerant crop varieties, scouting, and management practices which optimize populations of natural enemies of insect pests such as within-field refugia (untreated areas). Sound management programs also consider cultural and biological control practices.

### In order to maintain susceptibility to these classes of chemistry:

- Use products at their full, recommended doses. — *specified*
- Use appropriate, well-maintained equipment. Use ~~recommended~~ water volumes and apply at optimal temperatures in order to obtain optimal treatment.
- When rate ranges are given, use the higher rate within the listed rate range when insect pressure is expected to be high.
- Avoid using a single active ingredient or mode of action (same insecticide group) exclusively for season long control of insect species with more than one generation per crop season.
- For insect species with successive or overlapping generations, use a treatment window approach. A treatment window is a period of time defined by the stage of crop development and the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, single or consecutive applications may be made using seed, in-furrow, or foliar treatments unless otherwise excluded by product labels. Do not exceed the maximum amount of this insecticide's mode of action allowed per growing season.
- Following a treatment window of this insecticide's mode of action, rotate to a treatment window of effective products with a different mode of action before making additional applications of this insecticide.

If resistance to this product develops in your area, this product or other products with a similar mode of action may not provide adequate control. If poor performance cannot be attributed to improper application or weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable

cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for the crop and use area.

Syngenta encourages responsible product stewardship to ensure effective long term control of the insect pests on this label.

**For additional information on Insect Resistance Management:**

- Contact Syngenta representatives at 1-800-334-9481
- Contact your local Cooperative Extension Service specialist, pest control advisor, or certified crop advisor
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at: <http://www.irac-online.org>

<b>GROUP 4 12 FUNGICIDES</b>
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Avicta Complete Beans 500 contains mefenoxam, a Group 4 fungicide, and fludioxonil, a Group 12 fungicide. Mefenoxam belongs to the phenylamide class of chemistry which interferes with fungal RNA synthesis. Fludioxonil belongs to the phenylpyrrole class of chemistry which interferes with osmotic signal transduction.

Fungal populations may contain individuals naturally resistant to Group 4 or 12 fungicides and if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies such as alternation with fungicides with a different mode of action and/or tank mixes established for the crop and use area.

Use should be based on an IPM program that includes field sanitation, scouting, historical information related to pesticide use, and crop rotation. The IPM program should also consider cultural, biological, and other chemical control practices.

Syngenta encourages responsible product stewardship to ensure effective long term control of the fungal diseases on this label.

**For additional information on Fungicide Resistance Management:**

- Contact Syngenta representatives at 1-800-334-9481
- Contact your local extension specialist or certified crop advisor
- Visit the Fungicide Resistance Action Committee (FRAC) on the web at: <http://www.frac.info>

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## MIXING AND APPLICATION INSTRUCTIONS

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### RESTRICTIONS:

- Consult the Syngenta Seed Care representative or the manufacturer of the application equipment you plan to use regarding the suitability of this application and equipment calibration and operating instructions.
- Always treat seed in a well-ventilated area. Refer to the **Precautionary Statements** section of this label for personal protective equipment requirements and other safety precautions.
- Prepare no more mixture than is needed for the immediate operation.
- Avicta Complete Beans 500 must be thoroughly recirculated in its original container before using. (See **Mixing Instructions**.)
- Apply Avicta Complete Beans 500 as a water-based slurry utilizing standard slurry seed treatment equipment that will provide uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of nematode, insect, or disease protection.
- Thoroughly mix the required amount of Avicta Complete Beans 500 with the amount of water required for the slurry treater and the dilution rate.
- Use an EPA-approved dye or colorant that imparts an unnatural color to the seed.
- Allow seed to dry before bagging / filling containers, and store treated seed away from food and feed.

### Mixing Instructions

1. To dispense Avicta Complete Beans 500 into a mix tank, first attach a pump with fittings (e.g., Micro Matic) that match the fittings on the Avicta Complete Beans 500 container.
2. Recirculate product. Calculate the recirculation time based upon the ability of the pump to completely recirculate the volume of the tank 5-10 times within a 30-minute time period.
3. After the initial recirculation, recirculate for a short period of 5 minutes per day. Attach the dispensing hose to a dry-lock type of fitting that is permanently attached to the mix tank lid.
4. Add 1/4-1/2 of the required amount of water to the mix tank.

5. With the agitator running, add the Avicta Complete Beans 500 to the tank.
6. Continue agitation while adding the remainder of the water.
7. Begin application of the solution after the Avicta Complete Beans 500 has completely dispersed into the mix water.
8. Maintain agitation until all of the mixture has been applied.

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#### **CROP USE DIRECTIONS**

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To provide soybean seedlings early-season protection from damage caused by nematodes, including soybean cyst nematode, and the specified insects and diseases on this label, apply Avicta Complete Beans 500 to soybean seed as directed in the **Application** table.

**NOTE:** Soybean seed that can be treated with this product also include those varieties that produce edible (green) soybean seed (edamame).

## Application

To Protect Soybean Seedlings from Damage Caused by These Pests/ Diseases	Amount of Avicta Complete Beans 500 to Apply to Soybean Seed		
	Fl oz of product per 100 lb (cwt) of seed	Total grams of the 4 active ingredients (ai) per 100 kg of seed	Total mg of the 4 active ingredients (ai) per seed
<b>Nematodes</b> (including soybean cyst nematode)  <b>Insects:</b> Aphids Bean beetles Bean leaf beetles Grape colaspis Leaf hoppers Leaf miners Mexican bean beetle Seed corn maggot Three-cornered alfalfa hopper Thrips White grubs Wireworms  <b>Diseases:</b> Damping-off and seed-borne rots due to <i>Pythium</i> and <i>Phytophthora</i> Early-season <i>Phytophthora</i> root rot, <i>Fusarium</i> , and <i>Rhizoctonia</i>  Avicta Complete Beans 500 also suppresses seed-borne <i>Sclerotinia</i> and <i>Phomopsis</i> species.	6.2 fl oz  (@ 3,000 seeds per pound)	160 grams  (@ 3,000 seeds per pound)  <b>NOTE:</b> • 160 g of these 4 active ingredients per 100 kg of seed consists of the following amounts of each active ingredient:  100 g abamectin 50 g thiamethoxam 7.5 g mefenoxam 2.5 g fludioxonil	0.242 mg  (@ 3,000 seeds per pound)

## CLEANING SEED TREATMENT EQUIPMENT

Do not use compressed air hoses to remove the dust from the seed treating equipment or the area around the equipment; use a central vacuum system or a HEPA filter portable vacuum cleaner.



## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. ~~Open dumping is prohibited.~~

### Pesticide Storage

Store in a cool, dry place.

### Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

### Container Handling

**Non-refillable Container. Do not reuse or refill this container.** Syngenta's authorized agent will pick up the empty container and handle its disposal. Contact Syngenta or its authorized agent to make arrangements for this service and store empty container in a secure area until pick up.

~~Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal,~~ Triple rinse the container as follows: Empty the remaining contents into a rinsate collection system and drain for 40 seconds after the flow begins to drip. application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other endside and tip it back and forth several times. Empty the rinsate into a rinsate collection system application equipment or a mix tank or store rinsate for later disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures ~~allowed~~ approved by state and local authorities.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

### CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

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Viton® is a trademark of E. I. duPont de Nemours & Co., Inc.

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For non-emergency (e.g. current product information) call  
Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

Avicta Complete Beans 500 1457 MAS 0415 AMEND JUL2015 HILITE.doc – rk – 07/24/2015  
000100-01457.20150724.AVICTA.C.B.500-AMEND-0715-HILITE.PDF

~~(Non-Detachable Container Label)~~

**RESTRICTED USE PESTICIDE  
DUE TO TOXICITY**

~~FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR  
PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES  
COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.~~

<b>GROUP</b>	<b>4A</b>	<b>6</b>	<b>INSECTICIDES</b>
<b>GROUP</b>	<b>4</b>	<b>12</b>	<b>FUNGICIDES</b>

**Avicta® Complete Beans 500**

Nematicide/Insecticide/Fungicide

~~A seed treatment product that provides soybean seedlings early-season protection from  
damage caused by nematodes (including soybean cyst nematode) and the listed  
insects and diseases~~

~~For use only in Syngenta-certified seed treatment facilities and only in seed treatment  
equipment with closed transfer and application systems. Not for use in hopper box,  
planter box, slurry box, or other farmer-applied applications.~~

**Active Ingredients:**

Abamectin (CAS No. 71751-41-2).....	22.20%
Thiamethoxam (CAS No. 153719-23-4).....	11.10%
Mefenoxam CAS 70630-17-0, 69516-34-3).....	1.67%
Fludioxonil (CAS No. 131341-86-1).....	0.55%
Other Ingredients:.....	64.48%
Total:.....	100.00%

~~Avicta Complete Beans 500 contains 2.06 pounds of abamectin, 1.03 pounds of  
thiamethoxam, 0.15 pounds of mefenoxam, and 0.05 pounds of fludioxonil per gallon.~~

~~KEEP OUT OF REACH OF CHILDREN.~~

**WARNING/AVISO**

~~Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en  
detalle. (If you do not understand the label, find someone to explain it to you in detail.)~~

~~See additional precautionary statements and directions for use in booklet.~~

EPA Reg. No. 100-1457

EPA Est.

SCP 1457

[Net Contents Placeholder]

Net Contents

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

## Warning/aviso

~~May be fatal if swallowed or inhaled. Do not breathe vapor. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.~~

### FIRST AID

If inhaled	<ul style="list-style-type: none"> <li>• <del>Move person to fresh air.</del></li> <li>• <del>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</del></li> <li>• <del>Call a poison control center or doctor for further treatment advice.</del></li> </ul>
If swallowed	<ul style="list-style-type: none"> <li>• <del>Call poison control center or doctor immediately for treatment advice.</del></li> <li>• <del>Have person sip a glass of water if able to swallow.</del></li> <li>• <del>Do not induce vomiting unless told to do so by the poison control center or doctor.</del></li> <li>• <del>Do not give anything by mouth to an unconscious person.</del></li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• <del>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</del></li> <li>• <del>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</del></li> <li>• <del>Call a poison control center or doctor for treatment advice.</del></li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• <del>Take off contaminated clothing.</del></li> <li>• <del>Rinse skin immediately with plenty of water for 15-20 minutes.</del></li> <li>• <del>Call a poison control center or doctor for treatment advice.</del></li> </ul>

~~Have the product container or label with you when calling a poison control center or doctor, or going for treatment.~~

### HOT LINE NUMBER

For 24 Hour Medical Emergency Assistance (Human or Animal)  
Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident)  
Call

**1-800-888-8372**

### **Environmental Hazards**

~~This pesticide product is toxic to fish and wildlife and highly toxic to aquatic invertebrates. Exposed treated seeds may be hazardous to wildlife. Do not contaminate water when disposing of equipment wash water.~~

~~This pesticide product contains thiamethoxam, which is highly toxic to bees exposed to direct treatment. Effects may be possible as a result of exposure to translocated residues in blooming crops.~~

### **Groundwater Advisory**

~~This pesticide product contains the active ingredient mefenoxam, which is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of mefenoxam in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.~~

~~This product contains thiamethoxam, which has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.~~

Storage and disposal now in a box

## **STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

### **Pesticide Storage**

Store in a cool, dry place.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

### **Pesticide Disposal**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

### **Container Handling**

**Non-refillable Container.** Do not reuse or refill this container. Syngenta's authorized agent will pick up the empty container and handle its disposal. Contact Syngenta or its authorized agent to make arrangements for this service and store empty container in a secure area until pick up.

**Cleaning the container before final disposal is the responsibility of the person disposing of the container.** To clean the container before final disposal, triple rinse the container as follows: Empty the remaining contents into a rinsate collection system and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other side and tip it back and forth several times. Empty the rinsate into a rinsate collection system or store rinsate for later disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

**CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.**

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For non-emergency (e.g. current product information) call  
Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

SCP 1457

Avicta Complete Beans 500 1457 MAS 0415 —rk— 4/28/15

fast track amendment to revise label

12/9 - sent label comments to Syngenta  
12/15 - received comments back from Syngenta  
2/26 - sent email response to syngenta  
3/4 - new labels from Syngenta  
3/7 label on Venus's desk for review  
9/28 - sent label revisions to Syngenta  
10/18 new labels from syngenta  
10/24 revisions requested  
10/25 - new labels from syngetna  
  
10/27 - sent to Mark for signature



## Herrick, Jacquelyn

---

**From:** McCain Patrick USGR <patrick.mccain@syngenta.com>  
**Sent:** Wednesday, October 26, 2016 1:19 PM  
**To:** Herrick, Jacquelyn  
**Cc:** Flanery Matt USGR  
**Subject:** RE: 100-1457 and 100-1538 Label Revisions McCain 10-25-16

Thanks Jackie!  
Pat

**From:** Herrick, Jacquelyn [mailto:Herrick.Jacquelyn@epa.gov]  
**Sent:** Wednesday, October 26, 2016 12:57 PM  
**To:** McCain Patrick USGR <patrick.mccain@syngenta.com>  
**Cc:** Flanery Matt USGR <matt.flanery@syngenta.com>  
**Subject:** RE: 100-1457 and 100-1538 Label Revisions McCain 10-25-16

Hi Pat,

Please see the letter and stamped label for 100-1538. If you have any questions, please let me know.

Thanks,  
Jackie

Jacquelyn Herrick (Marchese)  
Entomologist  
EPA/HQ/OSCPP/OPP/RD/IVB3  
[herrick.jacquelyn@epa.gov](mailto:herrick.jacquelyn@epa.gov)  
703-347-0559

**\*\*My email address will change to [herrick.jacquelyn@epa.gov](mailto:herrick.jacquelyn@epa.gov) the week of 10/17/2016.**

**From:** Herrick, Jacquelyn  
**Sent:** Wednesday, October 26, 2016 10:11 AM  
**To:** 'McCain Patrick USGR' <patrick.mccain@syngenta.com>  
**Cc:** Flanery Matt USGR <matt.flanery@syngenta.com>  
**Subject:** RE: 100-1457 and 100-1538 Label Revisions McCain 10-25-16

Thanks Pat. 100-1538 is signed and was sent off for QA/QC review. 100-1457 is on Mark Suarez's team so it may take a little longer.

Thanks,  
Jackie

Jacquelyn Herrick (Marchese)  
Entomologist  
EPA/HQ/OSCPP/OPP/RD/IVB3  
[herrick.jacquelyn@epa.gov](mailto:herrick.jacquelyn@epa.gov)  
703-347-0559

**\*\*My email address will change to [herrick.jacquelyn@epa.gov](mailto:herrick.jacquelyn@epa.gov) the week of 10/17/2016.**

**From:** McCain Patrick USGR [<mailto:patrick.mccain@syngenta.com>]  
**Sent:** Tuesday, October 25, 2016 3:09 PM  
**To:** Herrick, Jacquelyn <[Herrick.Jacquelyn@epa.gov](mailto:Herrick.Jacquelyn@epa.gov)>  
**Cc:** Flanery Matt USGR <[matt.flanery@syngenta.com](mailto:matt.flanery@syngenta.com)>  
**Subject:** FW: 100-1457 and 100-1538 Label Revisions McCain 10-25-16

Hi Jackie,

As requested, I have attached the highlighted and clean pdfs for 100-1457 and 100-1538 with your requested changes.

Please let me know if you need anything further.

Many Thanks,  
Pat

**From:** Herrick, Jacquelyn [<mailto:Herrick.Jacquelyn@epa.gov>]  
**Sent:** Monday, October 24, 2016 4:26 PM  
**To:** McCain Patrick USGR <[patrick.mccain@syngenta.com](mailto:patrick.mccain@syngenta.com)>  
**Cc:** \_USGR Mgmt Data <[data.mgmt@syngenta.com](mailto:data.mgmt@syngenta.com)>; Flanery Matt USGR <[matt.flanery@syngenta.com](mailto:matt.flanery@syngenta.com)>  
**Subject:** RE: 100-1457 and 100-1538 Label Revisions Marchese McCain 10-18-16

Hi Pat,

Would you mind deleting the phrase "should be" on page 4 of the clean version of 100-1457 (second to last line of the first bullet)? Can you also make the same sentence match (found on page 4 of the clean version of 100-1538) (delete the brackets, change "Note" to "Important" and delete "should be")? Hopefully this is a quick and easy fix on your end, I don't need the highlighted label this time.

Otherwise, the labels look good to me. I'm sorry for missing this before.

Jackie

Jacquelyn Herrick (Marchese)  
Entomologist  
EPA/HQ/OSCPP/OPP/RD/IVB3  
[herrick.jacquelyn@epa.gov](mailto:herrick.jacquelyn@epa.gov)  
703-347-0559

**\*\*My email address will change to [herrick.jacquelyn@epa.gov](mailto:herrick.jacquelyn@epa.gov) the week of 10/17/2016.**

**From:** McCain Patrick USGR [<mailto:patrick.mccain@syngenta.com>]  
**Sent:** Tuesday, October 18, 2016 3:42 PM  
**To:** Herrick, Jacquelyn <[Herrick.Jacquelyn@epa.gov](mailto:Herrick.Jacquelyn@epa.gov)>  
**Cc:** \_USGR Mgmt Data <[data.mgmt@syngenta.com](mailto:data.mgmt@syngenta.com)>; Flanery Matt USGR <[matt.flanery@syngenta.com](mailto:matt.flanery@syngenta.com)>  
**Subject:** RE: 100-1457 and 100-1538 Label Revisions Marchese McCain 10-18-16

Hi Jackie,

I'm sorry for the delayed response. I had a death in the family which caused me to miss a lot of time at work. Nonetheless, attached please find the revised labels (clean and highlighted) for 100-1457 (Avicta Complete Beans 500) and 100-1538 (Avicta Duo COT 202) with all the changes you requested. As for the non-detachable container label question related to the first aid information, yes, each production label will have a non-detachable base label with this information included. In addition, we are aware of EPA's upcoming guidance regarding this topic and will comply with it

all requirements, of course. I believe this should satisfy all the Agency's requests and am hopeful these labels can be stamped approved quickly to allow us to meet upcoming production dates....

Please let me know if you have any questions...

Thanks alot,

Pat

**From:** Marchese, Jacquelyn [<mailto:Marchese.Jacquelyn@epa.gov>]  
**Sent:** Wednesday, September 28, 2016 12:00 PM  
**To:** McCain Patrick USGR <[patrick.mccain@syngenta.com](mailto:patrick.mccain@syngenta.com)>  
**Subject:** 100-1457 Label Revisions Marchese 9-28-16

Hi Pat,

Please see the requested label revisions for 100-1457. If you have any questions, please let me know.

Thanks,  
Jackie

Jacquelyn Herrick (Marchese)  
Entomologist  
EPA/HQ/OSCPP/OPP/RD/IVB3  
[marchese.jacquelyn@epa.gov](mailto:marchese.jacquelyn@epa.gov)  
703-347-0559

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## Herrick, Jacquelyn

---

**From:** Marchese, Jacquelyn  
**Sent:** Monday, March 07, 2016 8:46 AM  
**To:** McCain Patrick USGR  
**Cc:** Eagle, Venus; Flanery Matt USGR  
**Subject:** RE: 100-1457 Label Revisions Proposed Final McCain 3-4-16

Thanks Pat. I took a quick look and put this on Venus's desk for her last look, too.

Jackie

Jacquelyn Marchese  
Entomologist  
EPA/HQ/OSCPP/OPP/RD/IVB3  
[marchese.jacquelyn@epa.gov](mailto:marchese.jacquelyn@epa.gov)  
703-347-0559

**From:** McCain Patrick USGR [mailto:patrick.mccain@syngenta.com]  
**Sent:** Friday, March 04, 2016 3:41 PM  
**To:** Marchese, Jacquelyn <Marchese.Jacquelyn@epa.gov>  
**Cc:** Eagle, Venus <Eagle.Venus@epa.gov>; Flanery Matt USGR <matt.flanery@syngenta.com>  
**Subject:** RE: 100-1457 Label Revisions Proposed Final McCain 3-4-16

Hi Jackie,

I have incorporated all the requested revisions and your feedback immediately below in to the attached clean and highlighted versions of Avicta 400FS (100-1457). I believe this should satisfy all the Agency's previous comments and requested revisions to allow it to be approved. Please let me know if you have any further questions.

Thanks,  
Pat

**From:** Marchese, Jacquelyn [mailto:Marchese.Jacquelyn@epa.gov]  
**Sent:** Friday, February 26, 2016 2:45 PM  
**To:** Flanery Matt USGR  
**Cc:** McCain Patrick USGR; Eagle, Venus  
**Subject:** RE: 100-1457 Label Revisions Marchese 2-26-16

Hi Matt,

I am quite done with these plantback intervals! I'll stop my ranting there. OK, since the plant back intervals on the 100-941 label have tuberous and corm and the thiamethoxam section of 40 ecfr lists subgroup 1D but then includes potato as a separate commodity, we probably can include potato separately on the pbi chart with tuberous and corm vegetables (except potato) subgroup 1D. I believe this is what you originally proposed and I shot it down. Just so we're clear below is the list for 100-1457 and 100-RLAG. Please let me know if you have any questions.

Jackie

100-1457:  
Immediate plantback:  
Alfalfa  
Crop Groups 5A and 5B

Cereal Grains: barley, buckwheat, corn (field, pop, and sweet), oat, pearl millet, proso millet, rice (dry-seeded), rye, sorghum, teosinite, triticale, wheat, wild rice (delete crop group 15 because 40 ecfr has barley separate)

Canola

Cotton

Cucurbit vegetables, Crop Group 9

Fruiting vegetables Crop Group 8

Delete globe artichoke and hops

Leafy vegetables (Except Brassica), Crop Group 4

Legume vegetables, Crop Group 6

Mint: Peppermint and Spearmint

Oilseed Crops: borage, crambe, flax seed, mustard seed, and safflower

Dry bulb onions

Peanut

potato

Crop group 1A and 1D

Strawberry

Sunflower

Tobacco

100-RLAG:

Immediate:

Cereal Grains: barley, corn, oat, rye, sorghum, teosinite, triticale, wheat

30 days:

Alfalfa

Crop Groups 5A and 5B

Canola

Cereal Grains

Cotton

Cucurbit vegetables, Crop Group 9

Fruiting vegetables Crop Group 8

Delete globe artichoke and hops

Leafy vegetables (Except Brassica), Crop Group 4

Legume vegetables, Crop Group 6

Mint: Peppermint and Spearmint

Oilseed Crops: borage, crambe, flax seed, mustard seed, and safflower

Dry bulb onions

Peanut

Potato

Crop group 1A and 1D

Strawberry

Sunflower

Sugarbeet

Tobacco

Jacquelyn Marchese

Entomologist

EPA/HQ/OSCPP/OPP/RD/TVB3

[marchese.jacquelyn@epa.gov](mailto:marchese.jacquelyn@epa.gov)

703-347-0559

**From:** Flanery Matt USGR [mailto:matt.flanery@syngenta.com]  
**Sent:** Friday, February 26, 2016 2:17 PM  
**To:** Marchese, Jacquelyn <Marchese.Jacquelyn@epa.gov>  
**Cc:** McCain Patrick USGR <patrick.mccain@syngenta.com>  
**Subject:** RE: 100-1457 Label Revisions

Hi Jackie,

Thanks for keeping things separated, it is very helpful.

We are good with your changes on 100-1457, except I am confused by your statement on Potato. Since we have Potato on 100-941 (pp. 20-21 of the stamped Master Label), doesn't this count as the 'me-too label'?

-Matt

**From:** Marchese, Jacquelyn [mailto:Marchese.Jacquelyn@epa.gov]  
**Sent:** Friday, February 26, 2016 12:55 PM  
**To:** McCain Patrick USGR; Flanery Matt USGR  
**Subject:** 100-1457 Label Revisions

Hi Pat, Matt,

I copied your response to the 100-1457 label comments below to keep our 1 email per 1 label going. Responses are in green.

Plant back interval: Change Brassica (Cole) Leafy Vegetables Crop Group 5 to the 5A and 5B subgroup  
Delete "Crop group 15" include cereal grains only  
Delete "Crop group 4" or change to the Crop Group 4 title to include "except Brassica"  
Delete Hops, Globe Artichoke  
Change onion, bulb subgroup 3-07A to "dry bulb onions"  
Change root and tuber vegetables crop group 1 to the 1A and 1D subgroups

#### 100-1457 (Avicta Complete Beans 500)

- On pages 8 and 14, you request that Syngenta include a statement in the seed tag section providing a limitation of how much abamectin, mefenoxam and fludioxonil be applied per year. As this statement was not required previously when reviewed by the EFED and HED assessors, nor by the PM who has reviewed this label numerous times over the years, why are you now requesting this information for these 3 ai's? [Until the Agency agrees upon the policy on how to address this on all seed tags, I would suggest it remain as is unless originally required by HED or EFED. As you and Venus know, this subject is currently being considered as part of the effort to standardize seed tag requirements, so if EPA officially prescribes a policy for this type of information on seed tags, any revisions that are warranted at that time can be accomplished in a consistent, orderly and fair fashion to all registrants at the same time.] Please include maximums for mefenoxam and fludioxonil.
- On page 9, you request that the plantback table be updated appropriately. Please see our feedback on this aspect below:
  - Plantback Intervals are based on TMX only. Abamectin, fludioxonil and mefenoxam have no plantback restrictions.
- 1. Agree to remove 'Hops' and '...Crop Subgroup 3-07A' (we only have Onion, Bulb, not the subgroup). Thank you
- 2. Agree to change the name of 'Leafy Vegetables Crop Group 4' to the official name, 'Leafy Vegetables (Except Brassica Vegetables) Crop Group 4'. Thank you
- 3. Agree to remove 'Brassica (Cole) Leafy Vegetables Crop Group 5'. Instead, we will add 'Head and Stem Brassica Crop Subgroup 5A' and 'Leafy Brassica Greens Crop Subgroup 5B'. We have established tolerances, 40 CFR §180.565, for 'Brassica, head and stem, subgroup 5-A' and 'Brassica, leafy greens, subgroup 5-B' and DFUs in Actara, 100-938. Thank you

4. Agree to remove 'Root and Tuber Vegetable Crop Group 1'. Agree that, instead, we will include 'Root Vegetables Crop Subgroup 1A', 'Tuberous and Corm Vegetables (Except Potato) Crop Subgroup 1D'. Along these same lines, we will also add 'Potato'. Potato is not on the me-tooed label, please do not add it.
5. Disagree to remove 'Alfalfa'. We have established tolerances for 'Alfalfa, forage' and 'Alfalfa, hay'; Directions For Use (DFUs) for Alfalfa in the Cruiser Insecticide, 100-941, master label. My mistake
6. Disagree to remove 'Cereal Grains Crop Group 15: Buckwheat, Oat, Pearl Millet, Proso Millet, Rice (Dry-seeded), Rye, Sorghum, Teosinte, Triticale, Wheat and Wild Rice'. We have established tolerances for 'Grain, cereal, group 15, except barley' and 'Barley, grain', 'Barley, hay' and 'Barley, straw' and DFUs for 'Cereal Grains Crop Group 15' in the Cruiser Insecticide, 100-941, master label. Please delete the words "crop group 15"
7. Agree to remove 'Globe Artichoke' since it is a perennial crop. We have an established tolerance for 'Artichoke, globe' and DFUs in Actara, 100-938. [Please note, however, we do have an established tolerance for 'Artichoke, globe' and DFUs in Actara, 100-938.] Thank you
8. 100-1353 only: Disagree to remove 'Peanut' (was this a typo?). We have an established tolerance for 'Peanut' and DFUs for Peanut in Cruiser Insecticide, 100-941. My mistake

Jacquelyn Marchese  
Entomologist  
EPA/HQ/OSCPP/OPP/RD/IVB3  
[marchese.jacquelyn@epa.gov](mailto:marchese.jacquelyn@epa.gov)  
703-347-0559

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## Marchese, Jacquelyn

---

**From:** McCain Patrick USGR <patrick.mccain@syngenta.com>  
**Sent:** Tuesday, December 15, 2015 5:13 PM  
**To:** Marchese, Jacquelyn  
**Cc:** Flanery Matt USGR  
**Subject:** RE: Label revisions for amendments on 100-1457, 100-1211, and 100-1204 Marchese McCain feedback 12-15-15

Hi Jackie,

I will make the vast majority of the requested changes, but I do have some questions related to a few that you required. Please see below for my questions/comments.

### 100-1204 (Avicta 500FS)

- On page 1, you request that Syngenta include Plant-back information in the main label and seed tag. Since Avicta 500FS is a solo Abamectin product, there are no plant-back restrictions required for this AI. Therefore, this is not possible.
- On page 9, you request that Syngenta include a statement in the seed tag section providing a limitation of how much thiamethoxam can be applied per year. Since Avicta 500FS does not contain thiamethoxam, this statement is not necessary.

### 100-1211 (Avicta 400FS)

- On page 1, you asked that Syngenta include Plant-back information in the main label and seed tag. Since Avicta 400FS is a solo Abamectin product, there are no plant-back restrictions required for this AI. Therefore, this is not possible.
- On pages 9 and 12, you request that Syngenta include a statement in the seed tag section providing a limitation of how much abamectin and thiamethoxam can be applied per year. As this statement was not required previously when reviewed by the EFED and HED assessors, nor by the PM who has reviewed this label numerous times over the years, why are you now requesting this information for abamectin? [Until the Agency agrees upon the policy on how to address this on all seed tags, I would suggest it remain as is unless originally required by HED or EFED. This subject is currently being considered as part of the effort to standardize seed tag requirements, so if EPA prescribes a policy for this type of information, any revisions that are warranted at that time can be accomplished in a consistent, orderly and fair fashion to all registrants at the same time.] Since Avicta 400FS does not contain thiamethoxam, this statement is not necessary.

### 100-1457 (Avicta Complete Beans 500)

- On pages 8 and 14, you request that Syngenta include a statement in the seed tag section providing a limitation of how much abamectin, mefenoxam and fludioxonil be applied per year. As this statement was not required previously when reviewed by the EFED and HED assessors, nor by the PM who has reviewed this label numerous times over the years, why are you now requesting this information for these 3 ai's? [Until the Agency agrees upon the policy on how to address this on all seed tags, I would suggest it remain as is unless originally required by HED or EFED. As you and Venus know, this subject is currently being considered as part of the effort to standardize seed tag requirements, so if EPA officially prescribes a policy for this type of information on seed tags, any revisions that are warranted at that time can be accomplished in a consistent, orderly and fair fashion to all registrants at the same time.]
- On page 9, you request that the plantback table be updated appropriately. Please see our feedback on this aspect below:  
Plantback Intervals are based on TMX only. Abamectin, fludioxonil and mefenoxam have no plantback restrictions.



1. Agree to remove 'Hops' and '...Crop Subgroup 3-07A' (we only have Onion, Bulb, not the subgroup).
2. Agree to change the name of 'Leafy Vegetables Crop Group 4' to the official name, 'Leafy Vegetables (Except Brassica Vegetables) Crop Group 4'.
3. Agree to remove '*Brassica* (Cole) Leafy Vegetables Crop Group 5'. Instead, we will add 'Head and Stem *Brassica* Crop Subgroup 5A' and 'Leafy *Brassica* Greens Crop Subgroup 5B'. We have established tolerances, 40 CFR §180.565, for 'Brassica, head and stem, subgroup 5-A' and 'Brassica, leafy greens, subgroup 5-B' and DFUs in Actara, 100-938.
4. Agree to remove 'Root and Tuber Vegetable Crop Group 1'. Agree that, instead, we will include 'Root Vegetables Crop Subgroup 1A', 'Tuberous and Corm Vegetables (Except Potato) Crop Subgroup 1D'. Along these same lines, we will also add 'Potato'.
5. Disagree to remove 'Alfalfa'. We have established tolerances for 'Alfalfa, forage' and 'Alfalfa, hay'; Directions For Use (DFUs) for Alfalfa in the Cruiser Insecticide, 100-941, master label.
6. Disagree to remove 'Cereal Grains Crop Group 15: Buckwheat, Oat, Pearl Millet, Proso Millet, Rice (Dry-seeded), Rye, Sorghum, Teosinte, Triticale, Wheat and Wild Rice'. We have established tolerances for 'Grain, cereal, group 15, except barley' and 'Barley, grain', 'Barley, hay' and 'Barley, straw' and DFUs for 'Cereal Grains Crop Group 15' in the Cruiser Insecticide, 100-941, master label.
7. Agree to remove 'Globe Artichoke' since it is a perennial crop. We have an established tolerance for 'Artichoke, globe' and DFUs in Actara, 100-938. [Please note, however, we do have an established tolerance for 'Artichoke, globe' and DFUs in Actara, 100-938.]
8. 100-1353 only: Disagree to remove 'Peanut' (was this a typo?). We have an established tolerance for 'Peanut' and DFUs for Peanut in Cruiser Insecticide, 100-941.

Thanks for your consideration. I will wait to receive your feedback related to my comments before revising these labels for submission back to EPA.

With Best Regards,  
Pat

---

**From:** Marchese, Jacquelyn [mailto:Marchese.Jacquelyn@epa.gov]  
**Sent:** Wednesday, December 09, 2015 5:29 PM  
**To:** McCain Patrick USGR  
**Subject:** Label revisions for amendments on 100-1457, 100-1211, and 100-1204 Marchese 12-9-15

Please let me know if you have any questions.

Thanks,  
Jackie

Jacquelyn Marchese  
 Entomologist  
 EPA/HQ/OSCPP/OPP/RD/IVB3  
[marchese.jacquelyn@epa.gov](mailto:marchese.jacquelyn@epa.gov)  
 703-347-0559

JM

# FAST-TRACK AMENDMENTS – Completeness Screening Checklist

Expert's In-Processing Signature: Maryam M. Date: 9/16/15 PM #: 7

EPA Reg. Number: <u>100-1457</u>		EPA Receipt Date: <u>09/10/15</u>		
	Checklist Item	Yes	No	N/A
1	Application Form (EPA Form 8570-1) - signed?	✓		
2	Confidential Statement of Formula (EPA Form 8570-29) - signed?			✓
3	Certification with Respect to Citation of Data (EPA Form 8570-34) - signed?			✓
4	Formulator's Exemption Statement (EPA Form 8570-27) - signed?			✓
5	Data Matrix (EPA Form 8570-35) [Applicable for adding me-too uses] - signed?			✓
	a) Selective Method?			
	b) Cite-All Method?			
	c) Public copy of Matrix provided? See PR Notice 98-5			
6	Is Label included? (5 copies)			
	a) Electronic Label submitted?	✓		
<b>Comments:</b> <p>Coded in document submission # 8370          due 10/19</p>				

S: 974085

Milestone Email: kimberly.clark@syngenta.com

Regulatory Type: Product Registration - Section 3

Resubmission: ☐ Yes ☒ No

Application Type: Amendment

Fee For Service: ☐ Yes ☒ No

Billable: ☐ Yes ☒ No

Company: 100 SYNGENTA CROP PROTECTION, LLC

V

Risk Manager: Registration Division, Risk Management Team 7

Product #: 100-1457

Product Name: avicta complete beans 500

Override#:

Me Too  
Section3:

Me Too Product  
Name:

Application Date: 09-Sep-2015

OPP Rec'd Date: 10-Sep-2015

Front End Date: 10-Sep-2015

Risk Manager Send Date:

FFS Due Date:

Negotiated Due Date:

OPP Target Date:

Fast Track: ☐

New Ingredient: ☐

Receipt Description:

Portal submission 8370. Label amendment.

Form A: ☐

Signature Date:

Form B: ☐

Signature Date:

Print Letter

Enter More Information

Tracking

Receipt Content

Des

Electronic Label

View/Edit

New Ingredient

Request Date:

New Ingredient

Received Date:

DOCUMENTUM



Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, NC 27419-8300  
www.syngenta.com

PM 1

FEDERAL EXPRESS

July 21, 2015

Document Processing Desk  
Office of Pesticide Programs (7505P)  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

Attn: Ms. Venus Eagle, PM 01, Invertebrate and Vertebrate Branch 3

<b>SUBJECT: Avicta<sup>®</sup> Complete Beans 500</b> <b>EPA REG. NO. 100-1457</b> <b>SUBMISSION OF REVISED FINAL PRINTED LABELING</b>
--

Dear Ms. Eagle:

Syngenta Crop Protection, LLC hereby submits revised final printed labeling to remove the following misplaced Storage and Disposal paragraph from the Booklet Label and add it back to the base label as reflected in the current stamped Master label.

"For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes."



Enclosed is EPA form 8570-1 indicating submission of final printed labeling. If you have any questions or comments regarding this submission, please feel free to contact me at (336) 632-7317 or at [patrick.mccain@syngenta.com](mailto:patrick.mccain@syngenta.com).

Sincerely,

Patrick McCain  
Senior Regulatory Product Manager – Seed Care

Enclosures

Please read instructions on reverse before completing form.

 <b>United States</b> <b>Environmental Protection Agency</b> Washington, DC 20460		<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number   
<b>Application for Pesticide - Section I</b>			
1. Company/Product Number 100-1457		2. EPA Product Manager Venus Eagle	
4. Company/Product (Name) Avicta <sup>®</sup> Complete Beans 500		3. Proposed Classification <input type="checkbox"/> None <input checked="" type="checkbox"/> Restricted	
5. Name and Address of Applicant (Include ZIP Code) Syngenta Crop Protection, LLC P. O. Box 18300 Greensboro, NC 27419  <input type="checkbox"/> Check if this is a new address		6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No. _____ Product Name _____	
<b>Section - II</b>			
<input type="checkbox"/> Amendment - Explain below. <input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated <u>April 24, 2015</u>			
<input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application.			
<input type="checkbox"/> Notification - Explain below. <input type="checkbox"/> Other - Explain below.			
<b>Explanation:</b> Use additional page(s) if necessary. (For Section I and Section II.).  Syngenta Crop Protection, LLC hereby submits revised final printed labeling to remove the following misplaced Storage and Disposal paragraph from the Booklet Label and add it back to the base label as reflected in the current stamped Master label. "For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes."			
<b>Section - III</b>			
<b>1. Material This Product Will Be Packaged In:</b>			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>2. Type of Container</b> <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
*Certification must be submitted		If "Yes" No. per Unit Packaging wgt. Container	If "Yes" No. per Unit Packaging wgt. container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 15 gal	
		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Other Pressure Sensitive Label <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			
<b>Section - IV</b>			
<b>1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)</b>			
Name Patrick McCain		Title Senior Regulatory Product Manager – Seed Care	
		Telephone No. (Include Area Code) 336-632-7317	
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 		3. Title Senior Regulatory Product Manager – Seed Care	
4. Typed Name Patrick McCain		5. Date July 21, 2015	

PULL HERE TO OPEN ►

## RESTRICTED USE PESTICIDE DUE TO TOXICITY

FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

GROUP 4A | 6 INSECTICIDES

GROUP 4 | 12 FUNGICIDES

# **Avicta<sup>®</sup> Complete** **Beans 500**

**syngenta.**

### **Nematicide/ Insecticide/ Fungicide**

A seed treatment product that provides soybean seedlings early-season protection from damage caused by nematodes (including soybean cyst nematode) and the listed insects and diseases

For use only in Syngenta-certified seed treatment facilities and only in seed treatment equipment with closed transfer and application systems. Not for use in hopper box, planter box, slurry box, or other farmer-applied applications.

*Active Ingredients:*

Abamectin (CAS No. 71751-41-2) . . . . .	22.20%
Thiamethoxam (CAS No. 153719-23-4) . . . .	11.10%
Mefenoxam CAS 70630-17-0, 69516-34-3) . .	1.67%
Fludioxonil (CAS No. 131341-86-1) . . . . .	0.55%

<i>Other Ingredients:</i>	64.48%
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<i>Total:</i>	100.00%
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Avicta Complete Beans 500 contains 2.06 pounds of abamectin, 1.03 pounds of thiamethoxam, 0.15 pounds of mefenoxam, and 0.05 pounds of fludioxonil per gallon.

**KEEP OUT OF REACH OF  
CHILDREN.**

### **WARNING/ AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-1457

EPA Est. 100-NE-001

**SCP 1457A-L1A 0415  
4052590**

Product ID **53389**

**15 Gallons**  
Net Contents

FIRST AID	
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<p style="text-align: center;"><b>HOT LINE NUMBER</b>            For 24-Hour Medical Emergency Assistance (Human or Animal)            Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident)            Call  <b>1-800-888-8372</b></p>	

## PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

# WARNING/AVISO

May be fatal if inhaled. May be fatal if swallowed. Do not breathe vapor/spray mist. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

The following personal protective equipment and clothing are required when using this product:

### Personal Protective Equipment (PPE)

#### I. Seed Treatment Workers

**A. Workers involved with treating the seed (e.g., connecting and disconnecting hoses and transfer pumps, mixing, equipment calibration, etc.) must wear:**

- Chemical-resistant gloves made of any waterproof material – Category A (e.g., natural rubber ≥ 14 mils)
- Protective eyewear
- NIOSH-approved respirator with any N, R, P, or HE filter
- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant apron
- Shoes and socks.

*continued...*

## PRECAUTIONARY STATEMENTS *(continued)*

### **B. Workers Filling Seed Containers/Baggers and Bag Sewers must wear:**

- Chemical-resistant gloves made of any waterproof material – Category A (e.g., natural rubber > 14 mils)
- Protective eyewear
- NIOSH-approved respirator with any N, R, P, or HE filter
- Coveralls over long sleeved shirt and long pants
- Shoes and socks.

### **C. Workers involved with the clean up and maintenance of seed treatment equipment must wear:**

- Chemical resistant gloves made of any waterproof material – Category A (e.g., natural rubber ≥ 14 mils)
- Protective eyewear
- NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter
- Chemical-resistant coveralls over long-sleeved shirt and long pants
- Shoes and socks.

### **D. Multiple Task Workers must wear:**

(Multiple task workers perform multiple tasks in one day such as mixing, product application, filling seed containers/bagging, bag sewing, and clean up)

- Chemical-resistant gloves (when handling treated seeds and equipment clean-up) made of any waterproof material – Category A (e.g., natural rubber ≥ 14 mils)
- Protective eyewear (when treating seed and during clean-up)
- Dust/mist-filtering respirator (dust mask)
- Long-sleeved shirt and long pants
- Chemical-resistant coveralls over long-sleeved shirt and long pants (required when performing seed treatment equipment clean-up procedures)
- Shoes and socks.

### **Environmental Hazards**

This pesticide product is toxic to fish and wildlife and highly toxic to aquatic invertebrates. Exposed treated seeds may be hazardous to wildlife. Do not contaminate water when disposing of equipment wash water.

This pesticide product contains the active ingredient thiamethoxam, which is highly toxic to bees exposed to direct treatment. Effects may be possible as a result of exposure to translocated residues in blooming crops.

### **Groundwater Advisory**

This pesticide product contains the active ingredient mefenoxam, which is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of mefenoxam in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This product contains thiamethoxam, which has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.



## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

## DIRECTIONS FOR USE

### RESTRICTED USE PESTICIDE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

#### RESTRICTIONS:

- Avicta Complete Beans 500 is for use only in Syngenta-certified seed treatment facilities and only in seed treatment equipment with closed transfer and application systems. Use in hopper box, planter box, slurry box, or other farmer-applied applications is not permitted.
- Treatment of highly mechanically scarred or damaged seed or seed known to be of low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Conduct germination tests with a representative sample of the seed lot before committing the total seed lot to a selected seed treatment. Because seed quality and seed storage conditions are beyond the control of Syngenta, no claims are made to guarantee the germination of seed or propagating material for all crops.
- Seed treated with this product must be visually identifiable from untreated seed by the use of an approved colorant or dye to prevent accidental use of treated seed as food for humans or feed for animals. Refer to 21 CFR, Part 2.25. Any colorant or dye added to treated seed must be cleared for use in accordance with 40 CFR, Part 153.155(c). Refer to the section on this label **REQUIRED SEED CONTAINER STATEMENTS** for language that must appear on the container or on the tag that is attached to the container of treated seed.

## PRODUCT INFORMATION

Avicta Complete Beans 500 is a seed treatment nematicide/insecticide/fungicide for soybeans. Avicta Complete Beans 500 contains the active ingredients abamectin, thiamethoxam, mefenoxam, and fludioxonil. When applied to soybean seed, Avicta Complete Beans 500 will provide soybean seedlings early-season protection from damage caused by nematodes (including soybean cyst nematode) and from the insects, soil-borne diseases, and seed-borne diseases specified in the **Crop Use Directions**. Refer to the **Crop Use Directions** for application instructions.

## REQUIRED SEED CONTAINER STATEMENTS

User is responsible for ensuring that the seed container meets all requirements under the Federal Seed Act.

The Federal Seed Act requires that the container of soybean seed treated with Avicta Complete Beans 500 shall be labeled with the following statements:

- This seed has been treated with abamectin nematicide, thiamethoxam insecticide, and mefenoxam and fludioxonil fungicides.
- Do not use treated seed for feed, food, or oil purposes.

In addition, the U.S. Environmental Protection Agency requires the following statements on the container of soybean seed treated with Avicta Complete Beans 500.

- Wear long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves when handling treated seed.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- **Ground Water Advisory:** This pesticide product contains the active ingredient mefenoxam, which is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of mefenoxam in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This product contains thiamethoxam, which has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

- **Pollinator Precautions:** This product contains thiamethoxam, which is highly toxic to bees. Effects are possible as a result of exposure to translocated residues in blooming crops.
- Excess treated seed may be used for biofuel production only if:
  - (1) By-products are not used for livestock feed, and
  - (2) No measurable residues of pesticides remain in ethanol by-products that are used for agronomic practice.
- To protect wildlife and aquatic organisms, follow these practices:
  - Treated seeds exposed on soil surface may be hazardous to wildlife; cover or collect treated seeds that are spilled during loading and in areas such as row ends.
  - Dispose of all excess treated seed by burying seed away from bodies of water.
  - Do not contaminate bodies of water when disposing of planting equipment wash water.
- Store away from food and feedstuffs.
- Do not allow children, pets, or livestock to have access to treated seeds.
- Plant Avicta Complete Beans 500-treated soybean seed based upon the local planting dates and soil temperatures that are recommended by your state agricultural extension agent. In areas with a history of high nematode populations, a soil fumigant may be recommended.

- Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre per year (37.8 grams ai/A) as a seed treatment application. This seed has been treated with 0.0756 mg thiamethoxam/seed.
- Dispose of seed packaging in accordance with local requirements.
- After the seeds have been planted, do not enter or allow worker entry into treated areas during the restricted entry interval (REI) which is 48 hours. **Exception:** Once the seeds are planted into the soil workers are permitted to enter the treated area immediately if there will be no worker contact with the soil subsurface.
- Wait a minimum of 45 days after planting Avicta Complete Beans 500-treated soybean seed before treating the soybeans with a neonicotinoid insecticide.
- In the event of crop failure or after harvest of soybeans grown from Avicta Complete Beans 500-treated soybean seed, the following crops may be replanted immediately:

Immediate Plantback
Alfalfa
Brassica (Cole) Leafy Vegetables Crop Group 5
Cereal Grains Crop Group 15: Barley, Buckwheat, Corn (field, pop, and sweet), Oat, Pearl Millet, Proso Millet, Rice (Dry-seeded), Rye, Sorghum, Teosinte, Triticale, Wheat, and Wild Rice
Canola
Cotton
Cucurbit Vegetables Crop Group 9
Fruiting Vegetables Crop Group 8
Globe Artichoke
Hops
Leafy Vegetables Crop Group 4
Legume Vegetables (Succulent or Dried, Including Soybean) Crop Group 6
Mint: Peppermint and Spearmint
Oilseed Crops: Borage, Crambe, Flax Seed, Mustard Seed, and Safflower
Onion, Bulb, Crop Subgroup 3-07A
Peanut
Root and Tuber Vegetables Crop Group 1
Strawberry
Sunflower
Tobacco

For any other crop, the minimum plant back interval is 120 days from the date the Avicta Complete Beans 500 treated soybean seeds were planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120 day interval; however, the crop may not be grazed or harvested for food or feed.

## RESISTANCE MANAGEMENT

### GROUP 4A | 6 INSECTICIDES

Avicta Complete Beans 500 contains thiamethoxam, a Group 4A insecticide, and abamectin, a Group 6 insecticide. Thiamethoxam is a systemic insecticide belonging to the neonicotinoid class of chemistry which includes nicotinic acetylcholine receptor (nAChR) agonists. Abamectin belongs to the avermectin class of chemistry which affects nerves and muscles.

Insect populations may contain individuals naturally resistant to Group 4A and 6 insecticides and if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, use sound resistance management strategies established for the crop and use area.

Base seed treatment on an integrated pest management program that includes field sanitation, historical information related to pesticide use, careful selection of pest-tolerant crop varieties, scouting, and management practices which optimize populations of natural enemies of insect pests such as within-field refugia (untreated areas). Sound management programs also consider cultural and biological control practices.

#### In order to maintain susceptibility to these classes of chemistry:

- Use products at their full, recommended doses.
- Use appropriate, well-maintained equipment. Use recommended water volumes and apply at optimal temperatures in order to obtain optimal treatment.
- When rate ranges are given, use the higher rate within the listed rate range when insect pressure is expected to be high.
- Avoid using a single active ingredient or mode of action (same insecticide group) exclusively for season long control of insect species with more than one generation per crop season.
- For insect species with successive or overlapping generations, use a treatment window approach. A treatment window is a period of time defined by the stage of crop development and the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, single or consecutive applications may be made using seed, in-furrow, or foliar treatments unless otherwise excluded by product labels. Do not exceed the maximum amount of this insecticide's mode of action allowed per growing season.
- Following a treatment window of this insecticide's mode of action, rotate to a treatment window of effective products with a different mode of action before making additional applications of this insecticide.

If resistance to this product develops in your area, this product or other products with a similar mode of action may not provide adequate control. If poor performance cannot be attributed to improper application or weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for the crop and use area.

Syngenta encourages responsible product stewardship to ensure effective long term control of the insect pests on this label.

#### For additional information on Insect Resistance Management:

- Contact Syngenta representatives at 1-800-334-9481
- Contact your local Cooperative Extension Service specialist, pest control advisor, or certified crop advisor
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at: <http://www.irac-online.org>

### GROUP 4 | 12 FUNGICIDES

Avicta Complete Beans 500 contains mefenoxam, a Group 4 fungicide, and fludioxonil, a Group 12 fungicide. Mefenoxam belongs to the phenylamide class of chemistry which interferes with fungal RNA synthesis. Fludioxonil belongs to the phenylpyrrole class of chemistry which interferes with osmotic signal transduction.

Fungal populations may contain individuals naturally resistant to Group 4 or 12 fungicides and if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies such as alternation with fungicides with a different mode of action and/or tank mixes established for the crop and use area.

Use should be based on an IPM program that includes field sanitation, scouting, historical information related to pesticide use, and crop rotation. The IPM program should also consider cultural, biological, and other chemical control practices.

Syngenta encourages responsible product stewardship to ensure effective long term control of the fungal diseases on this label.

**For additional information on Fungicide Resistance Management:**

- Contact Syngenta representatives at 1-800-334-9481
- Contact your local extension specialist or certified crop advisor
- Visit the Fungicide Resistance Action Committee (FRAC) on the web at: <http://www.frac.info>

## MIXING AND APPLICATION INSTRUCTIONS

**RESTRICTIONS:**

- Consult the Syngenta Seed Care representative or the manufacturer of the application equipment you plan to use regarding the suitability of this application and equipment calibration and operating instructions.
- Always treat seed in a well-ventilated area. Refer to the **Precautionary Statements** section of this label for personal protective equipment requirements and other safety precautions.
- Prepare no more mixture than is needed for the immediate operation.
- Avicta Complete Beans 500 must be thoroughly recirculated in its original container before using. (See **Mixing Instructions**.)
- Apply Avicta Complete Beans 500 as a water-based slurry utilizing standard slurry seed treatment equipment that will provide uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of nematode, insect, or disease protection.
- Thoroughly mix the required amount of Avicta Complete Beans 500 with the amount of water required for the slurry treater and the dilution rate.
- Use an EPA-approved dye or colorant that imparts an unnatural color to the seed.
- Allow seed to dry before bagging / filling containers, and store treated seed away from food and feed.

**Mixing Instructions**

1. To dispense Avicta Complete Beans 500 into a mix tank, first attach a pump with fittings (e.g., Micro Matic) that match the fittings on the Avicta Complete Beans 500 container.
2. Recirculate product. Calculate the recirculation time based upon the ability of the pump to completely recirculate the volume of the tank 5-10 times within a 30-minute time period.
3. After the initial recirculation, recirculate for a short period of 5 minutes per day. Attach the dispensing hose to a dry-lock type of fitting that is permanently attached to the mix tank lid.
4. Add 1/4-1/2 of the required amount of water to the mix tank.
5. With the agitator running, add the Avicta Complete Beans 500 to the tank.
6. Continue agitation while adding the remainder of the water.
7. Begin application of the solution after the Avicta Complete Beans 500 has completely dispersed into the mix water.
8. Maintain agitation until all of the mixture has been applied.

## CROP USE DIRECTIONS

To provide soybean seedlings early-season protection from damage caused by nematodes, including soybean cyst nematode, and the specified insects and diseases on this label, apply Avicta Complete Beans 500 to soybean seed as directed in the **Application** table.

**NOTE:** Soybean seed that can be treated with this product also include those varieties that produce edible (green) soybean seed (edamame).

### Application

To Protect Soybean Seedlings from Damage Caused by These Pests/ Diseases	Amount of Avicta Complete Beans 500 to Apply to Soybean Seed		
	Fl oz of product per 100 lb (cwt) of seed	Total grams of the 4 active ingredients (ai) per 100 kg of seed	Total mg of the 4 active ingredients (ai) per seed
<b>Nematodes</b> (including soybean cyst nematode)  <b>Insects:</b> Aphids Bean beetles Bean leaf beetles Grape colaspis Leaf hoppers Leaf miners Mexican bean beetle Seed corn maggot Three-cornered alfalfa hopper Thrips White grubs Wireworms  <b>Diseases:</b> Damping-off and seed-borne rots due to <i>Pythium</i> and <i>Phytophthora</i> Early-season <i>Phytophthora</i> root rot, <i>Fusarium</i> , and <i>Rhizoctonia</i>  Avicta Complete Beans 500 also suppresses seed-borne <i>Sclerotinia</i> and <i>Phomopsis</i> species.	6.2 fl oz  (@ 3,000 seeds per pound)	160 grams  (@ 3,000 seeds per pound)  <b>NOTE:</b> • 160 g of these 4 active ingredients per 100 kg of seed consists of the following amounts of each active ingredient:  100 g abamectin 50 g thiamethoxam 7.5 g mephenoxam 2.5 g fludioxonil	0.242 mg  (@ 3,000 seeds per pound)

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

### Pesticide Storage

Store in a cool, dry place.

### Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

### Container Handling

**Non-refillable Container. Do not reuse or refill this container.** Syngenta's authorized agent will pick up the empty container and handle its disposal. Contact Syngenta or its authorized agent to make arrangements for this service and store empty container in a secure area until pick up.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, triple rinse the container as follows: Empty the remaining contents into a rinsate collection system and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other side and tip it back and forth several times. Empty the rinsate into a rinsate collection system or store rinsate for later disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Avicta®, the ALLIANCE FRAME  
the SYNGENTA Logo and the PURPOSE ICON  
are Trademarks of a Syngenta Group Company



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For non-emergency (e.g. current product information) call  
Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

**SCP 1457A-L1A 0415**  
**4052590**

# RESTRICTED USE PESTICIDE

## DUE TO TOXICITY

FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

GROUP 4A 6 INSECTICIDES

GROUP 4 12 FUNGICIDES

**Avicta® Complete**  
Beans 500

## Nematicide/ Insecticide/ Fungicide

A seed treatment product that provides soybean seedlings early-season protection from damage caused by nematodes (including soybean cyst nematode) and the listed insects and diseases

For use only in Syngenta-certified seed treatment facilities and only in seed treatment equipment with closed transfer and application systems. Not for use in hopper box, planter box, slurry box, or other farmer-applied applications.

Active Ingredients:	
Abamectin (CAS No. 71751-41-2) .....	22.20%
Thiamethoxam (CAS No. 153719-23-4) .....	11.10%
Mefenoxam CAS 70630-17-0, 69516-34-3) ....	1.67%
Fludioxonil (CAS No. 131341-86-1) .....	0.55%
Other Ingredients:	64.48%
Total:	100.00%

Avicta Complete Beans 500 contains 2.06 pounds of abamectin, 1.03 pounds of thiamethoxam, 0.15 pounds of mefenoxam, and 0.05 pounds of fludioxonil per gallon.

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-1457

EPA Est. 100-NE-001

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Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

SCP 1457A-L1A 0415  
4052590

**15 Gallons**  
Net Contents

## KEEP OUT OF REACH OF CHILDREN. WARNING/ AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

## PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals WARNING/AVISO

May be fatal if swallowed or inhaled. Do not breathe vapor. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

### FIRST AID

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. If swallowed: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**HOT LINE NUMBER:** For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call 1-800-888-8372.

**Environmental Hazards:** This pesticide product is toxic to fish and wildlife and highly toxic to aquatic invertebrates. Exposed treated seeds may be hazardous to wildlife. Do not contaminate water when disposing of equipment wash water. This pesticide product contains thiamethoxam, which is highly toxic to bees exposed to direct treatment. Effects may be possible as a result of exposure to translocated residues in blooming crops.

### Groundwater Advisory

This pesticide product contains the active ingredient mefenoxam, which is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of mefenoxam in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. This product contains thiamethoxam, which has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

**Pesticide Storage:** Store in a cool, dry place.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

### Container Handling

**Non-refillable Container:** Do not reuse or refill this container. Syngenta's authorized agent will pick up the empty container and handle its disposal. Contact Syngenta or its authorized agent to make arrangements for this service and store empty container in a secure area until pick up. Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, triple rinse the container as follows: Empty the remaining contents into a rinsate collection system and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other side and tip it back and forth several times. Empty the rinsate into a rinsate collection system or store rinsate for later disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities. **CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.**

**syngenta®**



